

PHILLIPS PETROLEUM TOMBSTONE A1 STATE
SW SW 14-20S-23E COCHISE COUNTY 716

WELL NAME PHILLIPS PETROLEUM TOMBSTONE STATE ^{A1}

LOCATION SW SW ~~14~~ SEC 14 TWP 20S RANGE 23E FOOTAGE 850' FSL, 600' FWL

ELEV 4756 GR 4790 KB SPUD DATE 3-9-81 STATUS P+O TOTAL
COMP. DATE 9-16-81 DEPTH 10,561

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
				DRILLED BY CABLE TOOL
				PRODUCTIVE RESERVOIR
				INITIAL PRODUCTION

[illegible]

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
Mud Log			SAMPLE DESCRP.
Dual Ind. SFL, Comp. Neutron - Fm.,			SAMPLE NO. 1821
Borehole Comp. Sonic, Continuous Dynameter			CORE ANALYSIS
			DSTs
REMARKS			APP. TO PLUG
			PLUGGING REP.
			COMP. REPORT

BOND CO. Safeci Ubs, Co. of America See P/N 702 BOND NO. 41 00 519
BOND AMT. \$ 25,000 CANCELLED 8-27-87 DATE ~~10-2-80~~ 9-20-80
FILING RECEIPT 1982 LOC. PLAT X WELL BOOK X PLAT BOOK X ORGANIZATION REPORT X
API NO. 02-003-20005 DATE ISSUED 1-9-81 DEDICATION W/2 sw/4

CONFIDENTIAL

Release Date 3-16-82

(over)

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JAN 22 1982

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

O & G CONS. COMM

New Well ☒ Work-Over ☐ Deepen ☐ Plug Back ☐ Same Reservoir ☐ Different Reservoir ☐ Oil ☒ Gas ☐ Dry ☒

DESCRIPTION OF WELL AND LEASE

Operator
Phillips Petroleum Company

Address
P. O. Box 2920, Casper, Wyoming 82602

Federal, State or Indian Lease Number or name of lessor if fee lease
Tombstone State-A

Well Number
1

Field & Reservoir
Wildcat

Location
600' FWL & 850' FSL, SW/4 SW/4

County
Cochise

Sec TWP-range or Block & Survey
Sec. 14-T20S-R23E

Date spudded
3/8/81

Date total depth reached
8/6/81

Date completed, ready to produce
P&A 9/16/81

Elevation (DF, RKB, BT or Gr.)
RKB 4759'

Elevation of casing hd. range
--

Total depth
10561'

P.B.T.D.
--

Single, dual or triple completion?
--

If this is a dual or triple completion, furnish separate report for each completion.
--

Producing interval (s) for this completion
--

Rotary tools used (interval)
0 - 10561'

Cable tools used (interval)
--

Was this well directionally drilled?
No

Was directional survey made?
No

Was copy of directional survey filed?
--

Date filed
--

Type of electrical or other logs run (check logs filed with the commission)
DIL, FDC-CNL, BHC Sonic and CDM

Date filed
Approx 11/16/81

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	26"	20"	133#	2095'	710 sx Sperialite	--
					& 590 sx Class G	

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
in.	ft.	ft.	in.	ft.	ft.	ft.	ft.
--	--	--	--	--	--	--	--

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth interval	Amt. & kind of material used	Depth interval
--	--	--	Set 190 sx Class G Cmt	Plug 7556-7456', 356 sx
--	--	--	Class G Cmt Plug 2195-1995'	& 25 sx Class G Cmt

INITIAL PRODUCTION Plug in Top of Surface Csg.

Date of first production
--

Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump):
Plugged and Abandoned 9/16/81

Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
--	--	--	bbbl.	MCF	bbbl.	-- ° API (Corr)
--	--	--	--	--	--	--

Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil	Gas	Water	Gas-oil ratio
--	--	--	bbbl.	MCF	bbbl.	--
--	--	--	--	--	--	--

Disposition of gas (state whether vented, used for fuel or sold):

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Area Manager of the Phillips Petroleum Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

January 20, 1982

Signature D. J. Fisher

Orig. - State of Arizona 1-R. M. Coffelt
1 - Texoma Prod. Co. 1-T. J. Jobin
1 - Anschutz Corp. 1-B'Ville Prod.
1 - File

Form No. 4

Form No. 4

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
File One Copy

(Complete Reverse Side)

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
CORES -			
5473' -	5479' -		Cored 6', full recovery.
6061' -	6093' -		Cored 32', rec 31'.
6503' -	6522' -		Cored 19', rec 15'.
8180' -	8186' -		Cored 6', rec 6'.
8837' -	8840' -		Cored 3', barrel jammed, rec 1'.
8840' -	8844' -		Cored 4', barrel jammed, rec 3-1/2'.
NO DST'S RUN			
NO POROSITY			

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach driller's log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

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PLUGGING RECORD

Operator Phillips Petroleum Company		Address P. O. Box 2920, Casper, Wyoming 82602			
Federal, State, or Indian Lease Number, or lessor's name if fee lease. Tombstone State-A		Well No. 1	Field & Reservoir Wildcat		
Location of Well 600' FWL & 850' FSL, SW/4 SW/4		Sec-Twp-Rge or Block & Survey Sec. 14-T20S-R23E			
County Cochise					
Application to drill this well was filed in name of Phillips Petroleum Company	Has this well ever produced oil or gas No	Character of well at completion (initial production): Oil (bbls/day) -- Gas (MCF/day) -- Dry? Yes			
Date plugged: 9/16/81	Total depth 10561'	Amount well producing when plugged: Oil (bbls/day) -- Gas (MCF/day) -- Water (bbls/day) --			
Name of each formation con- taining oil or gas. Indicate which formation open to well- bore at time of plugging	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used Indicate zones squeeze cemented, giving amount cement		
None	None	--	Set 190 sx Class G Cmt plug 7556-7456'. Set 356 sx Class G Cmt Plug 2195- 1995'. Set 25 sx Class G Cmt Plug in Top of Surf Csg		
CASING RECORD					
Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped, etc.)	Packers and shoes
30"	40'	--	--		
20"	2095'	--	2095'	No Recovery	Shoe at 2095'
Was well filled with mud-laden fluid, according to regulations? Yes				Indicate deepest formation containing fresh water. No Water Beds Verified During Drilling	
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
Name		Address		Direction from this well:	
State of Arizona		Phoenix, Arizona			
In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plug- ging which might be required.					
Not Plugged Back for Use as a Fresh Water Well					
Use reverse side for additional detail.					
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Area Manager of the Phillips Petroleum Company (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.					
Date January 20, 1982		Signature D. J. Fisher			
Orig: State of Arizona		1-R. M. Coffelt		STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record File One Copy	
1 - Texoma Prod. Co.		1-T. J. Jobin			
1 - Anschutz Corp.		1-B'Ville Prod.			
1 - File					
Permit No. API #02-003-20005		Form No. 10			

APPLICATION TO ABANDON AND PLUG

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SEP 18 1981

O & G CONS. COMM.

FIELD None

OPERATOR Phillips Petroleum Co. ADDRESS P.O. Box 2920 Casper, Wyoming 82602

Federal, State, or Indian Lease Number Tombstone State "A" WELL NO. 1

or Lessor's Name if Fee Lease

LOCATION 600' FWL & 850' FSL - SW/4 SW/4 Sec. 14-20S-23E,

Cochise County, Arizona

TYPE OF WELL Dry Hole TOTAL DEPTH 10561

(Oil, Gas or Dry Hole)

ALLOWABLE (If Assigned) None

LAST PRODUCTION TEST OIL 0 (Bbls.) WATER 0 (Bbls.)

GAS 0 (MCF) DATE OF TEST -

PRODUCING HORIZON None PRODUCING FROM - TO -

1. COMPLETE CASING RECORD

30" @ 40' G.L.
20" 133#K55 ST&C @ 2095

2. FULL DETAILS OF PROPOSED PLAN OF WORK

It is proposed to set a 100' cement plug (190 sx) from 7456 to 7556; a 200' cement plug (365 sx) from 1995 to 2195 (100' below & above 20" casing seat 2095) and a surface plug & dry hole marker.

Above plugging procedure was approved by A.K. Doss in telephone conversation with Frank Lyte (Phillips Petroleum Company - Casper, Wyoming) on September 14, 1981 and work is in progress.

DATE COMMENCING OPERATIONS September 14, 1981

NAME OF PERSON DOING WORK Parker Drilling Company ADDRESS Tulsa, Oklahoma

Signature H. F. Stoner for P. B. Hammer

Engineering Director

Title P.O. Box 2920 Casper, Wyoming 82602

Address September 15, 1981

Date

Date Approved 9-18-81

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: [Signature]

Permit No. 716

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Application to Abandon and Plug

File Two Copies

Form No. 9

12 - Ariz. O&G CC
1 - T.J. Jobin
1 - File

9-14-81

Memo to File 716
From A. K. Dowd

Permission given Frank Light of Phillips Petroleum, Casper, to
Plug Tombstone well. Will plug well 9-15-81.

NL INFORMATION SERVICES

RECEIVED

OCT 9 1981

O & G CONS. COMM.

PHILLIPS TOMBSTONE STATE "A" NO. 1
Section 14 T20S R23E

Final Well Report

P/N 716

PREPARED BY:

Michael Cady
ADT Engineer

And

Michael Terelesky
ADT Engineer

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INTRODUCTION

This report gives a summary of the drilling services provided by NL BAROID, a synopsis of the drilling activity, and a presentation of the data gathered.

Drilling began March 8, 1981 in Cochise County, Arizona, for Phillips Petroleum Corporation by Parker Drilling Company, Rig 166. On September 14, 1981, the hole was plugged and abandoned at 10,561 feet after 191 days of drilling. The times for each interval are shown below:

INTERVAL	OPERATION	DAYS REQUIRED
62' - 2,118'	Drill 12-1/4" hole	13
62' - 2,118'	Open hole to 17-1/2"	3
62' - 2,118'	Open hole to 26"	26
2,118' - 10,561'	Drill 12-1/4" hole	113
2,118' - 7,558'	Open hole to 17-1/2"	<u>36</u>
		191

CADT WELL MONITORING

The Baroid Computerized Applied Drilling Technology (CADT) Unit was put into full operation on March 8, 1981 at which time Parker Rig 166 drilled out from beneath conductor pipe at a depth of 40 feet. Full service was provided without interruption for a period of 173 days until August 28, 1981, at which time the Unit was put on partial service due to fishing problems encountered while opening the hole for intermediate casing. On September 14, 1981 (190 total days) as further problems forced abandonment of the well, the CADT Unit was released from service.

CADT PARAMETERS

While providing full service the following parameters were continuously monitored:

Depth
Weight on Bit
Rotary Speed
Pump Strokes
Standpipe Pressure
Density In/Out
Conductivity In/Out

Temperature In/Out
Pit Volume
Total Gas
H₂S
CO₂
Rotary Torque
Flow Out

With the assistance of the on-board Prime 100 Computer the following parameters were calculated:

Avg. WOB for Drilled Interval
Flow In

Avg. Flow In for Drilled Interval
Flow In/Out Difference

Lagged Temperature Difference
Lagged Conductivity Difference

Drill Rate in Requested Units
Average Torque per Interval

Pit Volume Change
Pit Volume Change per Minute

Total Hole Mud Volume
Total Circulation Time

Bottoms Up Time
Lagged Depth

Revs on Bit

Average Rotary Speed for Interval

D Exponent

Modified D Exponent

Average Gas for Interval

Annular Fluid Velocity

Critical Velocity

Pressure Drops in Hole

Jet Velocity

Jet Impact

Impact Area

Bit Horsepower

Horsepower Ratio

Equivalent Circulating Density

Cuttings Slip Velocity

Maximum Cutting Size

Cost per Foot

Hook Load

Time on Bottom

Feet on Bit

Strokes to Drill Interval

Fracture Pressure

Pore Pressure

During trips for new bits the Baroid Trip Monitor Program monitored and calculated the following:

- Actual Hook Load
- Calculated Hook Load
- Pit Volume Change
- Calculated Drill String Displacement
- Depth of Bit
- Trip Tank Volume
- Running Speed
- Surge and Swab Pressures
- Maximum Running Speed
- Hole Condition Summary Prior to Trip
- Flow Out

All of the parameters listed above were available to those concerned through a variety of sources.

- Video display screens placed in each trailer on location in addition to the doghouse and the CADT Unit.
- Silent 700 printer in CADT Unit
- Strip chart recorders located in Unit for graphic representation of more important parameters.
- Morning Report prepared by ADT Engineers each day. (See example.)

Easy access to this information combined with the attentiveness of the Loggers stationed in the Unit twenty-four hours a day allowed the saving of a great deal of time and money due to early recognition of a problem or problems in the developing stages.

Of the 25 washouts which occurred in the drill string while the CADT Unit was providing full service, only one resulted in a twist-off and rig personnel were notified of a drop in pump pressure a full 10 feet before this twist-off occurred.

Baroid personnel played an important role in minimizing mud losses due to equipment or formation failure. While drilling to the surface casing seat mud losses in the loosely cemented formation were reduced significantly through early detection. Mud costs at this point were relatively low but water to mix the mud was being hauled to location at a premium requiring that losses be kept to a minimum. Details on drilling problems encountered can be found in the Interval Summary Section.

The Baroid ADT Engineers made recommendations to drilling personnel through the use of the information available to them through the computer in the CADT Unit. Recommendations in reference to jet sizes, pump speed, bit type to run and mud weight were most common.

DRILLING SUMMARY

INTERVAL: 62 to 2,118 Feet

March 8 - March 20, 1981

From the 30 inch conductor pipe set at 40 feet, a 12-1/4 inch hole was drilled to 2,118 feet in 13 days. Two more days were used to run E Logs in this section. Native water was used as a spud mud with no control on filtration loss. Average penetration rate was 10.8 ft/hr. Five bits were used, predominately F3's and J33's, at 10-15,000 lbs. with an average 60-80 RPM. Jet sizes were 15-15-15 with a 520 gpm at 900 psi. This section comprised mainly of sandstone and siltstone with the last 600 feet of the section predominately limestone. There were no shows in this section.

March 21 - March 23, 1981

Two Grant Hole Openers with 24-24-16 jet sizes were used to open the hole from 12-1/4 inch to 12-1/2 inch. The pump rate averaged 496 gpm at 750 psi.

March 24 - April 14, 1981

Seven Grant Hole Openers with predominately three 18's and three 16's jet sizes were used to open the 17-1/2 inch hole to 26 inches. Pump rate was maintained at approximately 496 gpm at 950 psi. This section took 22 days to complete, including five days retrieving a lost cone from NB #11.

April 15 - April 18, 1981

At 2,095 feet the 20 inch intermediate casing was set. The four days included running casing, cementing, waiting on cement and nipping up.

INTERVAL: 2,118 to 3,680 Feet

April 19 - April 29, 1981

Below the intermediate casing, a 12-1/4 inch hole was drilled. For this section, from 2,118 to 3,680 feet, four bits were used, two J33's and two F3's. Jet sizes were mainly 12-12-12 with the pump rate of 520 gpm at 1900 psi. Average penetration rate was 8.8 ft/hr using an average 20,000 WOB and 60/70 RPM. The mud was changed to a lime/gel system without filtration control. The formation was mainly a limestone which was fractured in places, causing lost circulation. Two hundred barrels were lost at 2,344 feet with gradual losses of 60 barrels an hour to 2,472 feet. Mica and walnut hulls were added to plug the fractures.

Five washouts occurred in this section, four joints of 5 inch drill pipe, and one 9 inch drill collar.

INTERVAL: 3,680 to 6,000 Feet

April 30 - May 23, 1981

Using eight bits, mainly J33, F3 and F4, this section of the 12-1/4 inch hole was drilled in 24 days at an average penetration rate of 6.1 ft/hr. WOB was 18-20,000 to 4,951 feet. At that point, a slight increase in deviation occurred, from 2-2-1/2 degrees, necessitating a reduction of WOB to 10,000. The RPM's remained between 60-70. Jet sizes were predominately 12-12-12 with a pump rate of 490 gpm at 2180 psi.

Two cores were attempted, one at 4,050 feet, the other at 5,473 feet. No core was recovered at 4,050 feet, and a six foot core was recovered at 5,473 feet. Both core bits were Christensen 8-3/4 inch MC 23.

Mud weights remained at 8.8-8.9 ppg. DRISPAC[®] was added to control filtration and caustic soda added to control pH. Filtration levels were maintained at 16-18 and pH at 10.5-10.8. With the low mud weights, lost circulation caused by formation breakdown was not a problem. However, naturally occurring fractures sometimes did appear and made it necessary to add LCM. At 4,780 feet, 60 barrels of mud were lost in fractured granite.

This section had seven washouts. Five were in the 5 inch drill pipe, one in the 9 inch drill collar, and one in the teledrift tool. No time was lost for fishing, since all washouts were caught in time.

From 3,680 to 6,000 feet, the formation was entirely igneous, presumably overthrust in nature.

INTERVAL: 6,000 to 8,355 Feet

May 24 to June 30, 1981

Using ten bits, mostly F3, F4, F5's this section was drilled in 38 days. Average penetration was 3.8 ft/hr for the section. Average WOB varied depending upon deviation. From 6,000 to 7,130 feet, WOB averaged 20,000. From 7,130 to 8,365 feet, WOB averaged 15,000. RPM was essentially 60 most of the section. Pump rates averaged 495 gpm at 2150 psi using 12-12-13 size jets.

Mud weights rose slightly to 9.1 ppg because of excess solids in the mud. FLOSAL[®] was added to the mud instead of DRISPAC[®]. Filtration levels were maintained between 14.0 to 16.0. The pH levels were from 10.2 to 10.8.

Besides the ten bits, three core bits were run in this section. Core bit #28 ran from 6,061 to 6,092 feet, recovering 30 feet. RR #28 ran from 6,503 to 6,522 feet, recovering 15 feet of core. Core Bit #38 ran from 8,180 to 8,186 feet, recovering 6 feet of core. All three core bits were 8-3/4 inch Christensen MC 23's.

Washouts were still a problem in this section, though to a lesser degree in the drill pipe. Grade G type drill pipe was found just above the heavy wall pipe. After being replaced by Type E, washouts of the drill pipe were minimized. Two 9 inch drill collars were found to be defective and NB 31 and NB 34 had jets which were washed out. NB 35 was run 19.1 hours and had to be pulled because of a washout in a weld on the bit itself. One joint of heavy wall drill pipe and two joints of 5 inch drill pipe were replaced.

INTERVAL: 6,000 to 8,355 Feet (Continued)

Deviation started to become a problem in this section. Starting from 1-3/4 degrees at 6,049 feet, the deviation rose slowly until 7,107 feet where it went from 2-1/4 degrees to 3-1/2 degrees. From there deviation remained at 3-1/2 degrees until 8,180 feet where deviation increased to 4-3/4 degrees. By 8,302 feet, the deviation was 5 degrees. (Refer to Deviation Table.)

With an increase in deviation, the torque increased. From a low value of 170 amps at 6,000 feet, the torque increased to 280 amps by 8,139 feet. At 8,139 feet, while running in NB 39, the pipe was stuck and then freed, and then stuck again, three stands off bottom. Fortunately, although the jars failed to operate, the pipe was unstuck and drilling was resumed after a few hours.

Lithology for this section consisted of siltstones with sandstone and traces of limestone. A great deal of sloughing occurred while drilling this section. A 30% increase in lag time was calculated by comparison of the carbide lag to the annular volume of a 12-1/4 inch hole.

INTERVAL: 8,355 to 10,561 Feet

July 1 to August 7, 1981

This section used 16 bits, mostly F4's and F5's, to drill from 8,355 to 10,561 feet in 38 days. Also used were two core bits, NB 45 and NB 46, from 8,837 to 8,844 feet, recovering 7-1/2 feet. Penetration rate for this section averaged 4.0 ft/hr. WOB values were 10-15,000 from 8,355 to 9,524 feet. From 9,524 to 10,561 feet, WOB was increased with a reduction in deviation, to an average of 30,000. RPM was 55-65. Pump rate was 489 gpm at 2,210 psi, using 12-12-13 jet sizes.

Because of an increase in deviation, 5 degrees at 8,298 feet, a dyna drill was used with NB #40. Also used were NB #41, 42, and 43 to a depth of 8,667 feet. WOB was reduced to 10,000 and RPM increased to 350 by use of the mud turbine. Pump rate was 395 gpm at 900 psi using 20-20-20 jet sizes. By 8,667 feet, deviation had been reduced to 4 degrees and dyna drilling was discontinued. At 8,985 feet, however, deviation had increased to 5 degrees, necessitating the use of the dyna drill again. From 9,008 to 9,186 feet, RR 48, NB 49 and NB 50 were used in an effort to correct the deviation. By 9,186 feet, the deviation was reduced to 3-3/4 inches, and normal drilling was resumed to Total Depth. (Refer to Deviation Tables.)

The mud weight in this section was maintained at 9.0 ppg. DRISPAC[®] was used instead of FLOSAL[®], with caustic soda being used to control pH. Filtration levels averaged between 15-18, with the pH level maintained at between 10.4 to 11.0.

INTERVAL: 8,355 to 10,561 Feet (Continued)

Trips for washouts were greatly reduced in this section. Only one trip for a washed out drill pipe occurred, at 8,837 feet. At 8,988 feet, tripped for washout in NB #47, F4. Then at 10,452 feet, tripped out of hole for a washout in the jars.

Lithology in this section was mainly a siltstone. Sandstone was present in slightly smaller quantities, with dolomite appearing between 8,750 to 9,200 feet. No shows appeared in this section.

August 8 to August 9

Spent two days E logging this section. Caliper lag showed large areas in excess of 16 inches. (Refer to Caliper Chart.)

INTERVAL: 2,095 to 7,558 Feet

August 10 to September 14, 1981

Using 15 Grant Hole Openers, this section was opened up from 12-1/4 inch to 17-1/2 inch in 36 days. At 7,558 feet, the drilling operation ceased and the well was plugged and abandoned. A possible reason for this action was the amount of junk which had accumulated in the hole. NB #61 lost the 12-1/4 inch pilot bit, NB #67 lost two cutters, and finally NB #74 was missing the bottom half of the hole opener. To continue hole opening would probably have necessitated plugging back and whip-stocking around the offending metal, an action which would have been very costly and time consuming.

PORE PRESSURE AND FRACTURE GRADIENT PREDICTION

While drilling, a variety of methods are used to give some indication of changes in pore pressure within a formation prior to electric logging. In any given situation one technique may be more accurate or dependable than another but when all are taken into consideration in the final evaluation, deviations from a normal pressure gradient can be detected.

The modified "d" exponent is one method used in detecting abnormal pore pressure. Derived from a drill rate equation, the "d" exponent is a dimensionless number which normalizes the effects of bit weight, rotary speed, bit diameter and mud weight. When plotted versus the depth, a normal trend line is quickly established and deviations from this trend line indicate abnormally pressured zones. This is extremely useful when drilling with a balanced system in that needed increases in mud weight are indicated prior to formation fluids or gases reaching the surface.

Delta T or the change in the temperature of the drilling mud as it makes one circulation through the hole is another useful method of detecting changes in pore pressure. When allowances are made for outside air temperature and pump downtime, increases in pore pressure are often reflected by an increase in delta T. This is due primarily to the insulating properties of highly porous formations as compared to less porous zones.

Connection and trip gas and their relation to surge and swab pressures are useful indicators of changes in pore pressure. As the hole approaches a balanced condition with the drilling mud, increases in the amount of trip and connection gas would indicate an increase in pore pressure.

Delta chlorides, obtained through the measurement of conductivity of the mud at the suction line and flow line is also a useful indicator of changes in pore pressure. For Delta chlorides to be of value, the assumption must be made that there would be a corresponding influx of fresh or salt water into the borehole with an increase in pore pressure. Mud additives must also be closely monitored.

Mud density, measured with sensors at the flowline and suction can also indicate changes in pore pressure. Gas cut mud would show up having a lower density at the flowline while losses of fluid to a subnormally pressured zone would cause the weight to increase in most cases.

Conclusions drawn from the indicators above can often be reinforced by observations made of the pit volume, standpipe pressure, torque indicator and changes in drill rate.

Due to the lack of information on fracture gradients in the Arizona area the Eaton Method was used in predicting fracture gradient on Phillips Tombstone State.

RECOMMENDATIONS

1. The caliper log indicated that large amounts of sloughing occurred in the 2,095 to 10,561 feet section of the hole. In large part this could be a result of having kept the annular drill pipe sections in turbulent flow for the entire well. Though keeping drill collars in laminar flow is ideal, this usually results in poor hole cleaning, definitely not recommended. However, laminar flow can usually be obtained opposite drill pipe sections.
2. With considerations for hole stability and casing tensile strength, increase the depth of the intermediate casing seat. This may enable drilling to reach total depth without the need for an additional liner below the intermediate casing point.
3. Control mud solids content more strictly. The use of a company specializing in solids control should be considered. This would reduce the number of problems we experienced with washed out jets and drill pipe.
4. Perform leak-off test at each casing seat in order to establish mud weight limits in the event pressures are encountered later on.

DEVIATION SURVEYS

<u>Depth</u>	<u>Degrees Deviation</u>	<u>Degrees Difference</u>	<u>Feet Interval</u>
224'	3/4	0	224
418'	3/4	0	194
544'	3/4	0	126
624'	3/4	0	80
698'	3/4	0	74
780'	3/4	0	82
818'	3/4	0	38
902'	1	+1/4	84
1,020'	1	0	118
1,186'	3/4	-1/4	166
1,269'	3/4	0	83
1,334'	3/4	0	65
1,404'	1/2	-1/4	70
1,494'	1	+1/2	90
1,576'	3/4	-1/4	82
1,641'	1	1/4	65
1,700'	3/4	-1/4	59
1,758'	1	+1/4	58
1,820'	1	0	62
1,941'	1	0	121
2,003'	3/4	-1/4	62
2,158'	1	+1/4	155
2,218'	1/2	-1/2	60
2,282'	1/2	0	64
2,344'	1/2	0	62
2,373'	1/2	0	29
2,404'	1/2	0	31
2,463'	1/2	0	59
2,495'	1/2	0	32
2,525'	1/2	0	30
2,555'	1/2	0	30
2,617'	1/2	0	62

DEVIATION SURVEYS

<u>Depth</u>	<u>Degrees Deviation</u>	<u>Degrees Difference</u>	<u>Feet Interval</u>
2,649'	1/2	0	32
2,680'	1/2	0	31
2,711'	1/2	0	31
2,742'	1/2	0	31
2,771'	1/2	0	29
2,788'	1/2	0	17
2,834'	1/2	0	46
2,862'	1/2	0	28
2,954'	1/2	0	92
3,023'	1/2	0	69
3,045'	1/2	0	22
3,080'	1/2	0	35
3,110'	1	1/2	30
3,140'	1	0	30
3,172'	1/2	-1/2	32
3,232'	1/2	0	60
3,264'	1/2	0	32
3,294'	1/2	0	30
3,324'	1/2	0	30
3,356'	1/2	0	32
3,388'	1/2	0	32
3,418'	1/2	0	30
3,446'	1	+1/2	28
3,478'	1/2	-1/2	32
3,540'	1	+1/2	62
3,570'	1/2	-1/2	30
3,628'	1-1/2	+1	58
3,656'	1	-1/2	28
3,718'	1/2	-1/2	62
3,784'	1/2	0	66
3,810'	1/2	0	26
3,840'	1/2	0	30

DEVIATION SURVEYS

Depth	Degrees Deviation	Degrees Difference	Feet Interval
3,872'	1/2	0	32
3,900'	1	+1/2	28
3,932'	1/2	-1/2	32
3,964'	1/2	0	32
4,026'	1/2	0	62
4,120'	1/2	0	94
4,150'	3/4	+1/4	30
4,210'	1	+1/4	60
4,240'	1	0	30
4,272'	1	0	32
4,334'	1/2	-1/2	62
4,394'	1	+1/2	60
4,424'	1-1/2	+1/2	30
4,456'	1	-1/2	32
4,486'	1-1/2	+1/2	30
4,520'	1-1/2	0	34
4,550'	1-1/2	0	30
4,580'	2	+1/2	30
4,612'	2	0	32
4,641'	2	0	29
4,702'	2-1/2	+1/2	61
4,732'	1-1/2	-1	30
4,762'	2-1/2	+1	30
4,792'	2-1/2	0	30
4,826'	2-1/2	0	34
4,856'	2	-1/2	30
4,888'	2-1/2	+1/2	32
4,919'	3	+1/2	31
4,954'	2-1/2	-1/2	35
4,982'	3	+1/2	28
5,040'	1-1/2	-1-1/2	58
5,072'	1-1/2	0	32

DEVIATION SURVEYS

Depth	Degrees Deviation	Degrees Difference	Feet Interval
5,108'	1-1/2	0	36
5,164'	1-1/2	0	56
5,190'	1-1/2	0	26
5,226'	2-1/4	+3/4	36
5,264'	2-1/4	0	38
5,290'	2	-1/2	26
5,320'	2	0	30
5,374'	3	+1	54
5,441'	1-1/2	-1-1/2	67
5,534'	1	-1/2	93
5,556'	1	0	22
5,596'	2-1/2	+1-1/2	40
5,626'	1	-1-1/2	30
5,658'	1	0	32
5,688'	1-3/4	+3/4	30
5,720'	3	+1-1/4	32
5,750'	1-3/4	-1-1/4	30
5,780'	1	-3/4	30
5,812'	1-1/2	+1/2	32
5,870'	2-1/2	+1	58
5,900'	1-1/2	-1	30
5,994'	1-3/4	+1/4	94
6,149'	1-1/2	-1/4	155
6,239'	2	+1/2	90
6,314'	2	0	75
6,436'	1	-1	122
6,678'	1-3/4	+3/4	242
6,738'	1-1/2	-1/2	60
6,830'	2	+1/2	92
6,924'	2-1/4	+1/4	94
7,044'	3	+3/4	120
7,106'	3-1/2	+1/2	62

DEVIATION SURVEYS

Depth	Degrees Deviation	Degrees Difference	Feet Interval
7,170'	4	+1/2	64
7,232'	3-1/2	-1/2	62
7,299'	4	+1/2	67
7,368'	3-1/4	-3/4	69
7,415'	3-1/2	+1/4	47
7,444'	3-1/2	0	29
7,508'	3-1/4	0	64
7,536'	3-1/2	+1/4	28
7,622	3-1/2	0	86
7,780'	4	+1/2	158
7,810'	4	0	30
7,870'	4	0	60
8,056'	3-3/4	-1/4	186
8,120'	4	+1/4	64
8,170'	4-3/4	+3/4	50
8,240'	4-3/4	0	80
8,298'	5	+1/4	48
8,361'	4-3/4	-1/4	63
8,414'	5	+1/4	53
8,454'	4	-1	40
8,490'	4	0	36
8,518'	3-3/4	-1/4	28
8,546'	4-3/4	+1	28
8,578'	4	-3/4	32
8,606'	3-3/4	-1/4	28
8,638'	3-3/4	0	32
8,667'	3-3/4	0	29
8,704'	4	+1/4	37
8,736'	3-1/2	-1/2	32
8,766'	3-3/4	+1/4	30
8,797'	3-3/4	0	31
8,830'	4	+1/4	33

DEVIATION SURVEYS

Depth	Degrees Deviation	Degrees Difference	Feet Interval
8,860'	4	0	30
8,953'	4-3/4	+3/4	93
8,985'	5	+1/4	32
9,154'	5	0	169
9,185'	3-3/4	-1-1/4	31
9,224'	3-3/4	0	39
9,256'	3-1/2	-1/4	32
9,287'	4	+1/2	31
9,317'	4	0	30
9,348'	4	0	31
9,365'	4	0	17
9,411'	3-1/2	-1/2	46
9,441'	3	-1/2	30
9,507'	3	0	66
9,522'	2-3/4	-1/4	15
9,570'	2-3/4	0	48
9,634'	3	+1/4	64
9,696'	2-1/2	-1/2	62
9,759'	3	+1/2	63
9,781'	3	0	22
9,823'	2-1/2	-1/2	42
9,885'	2-1/4	-1/4	62
9,948'	2-1/4	0	63
9,992'	2-1/4	0	44
10,050'	2	-1/4	58
10,113'	1-3/4	-1/4	63
10,175'	1-3/4	0	62
10,237'	1-3/4	0	62
10,301'	2-1/4	+1/2	64
10,332'	2-1/4	0	31
10,394'	2	-1/4	62
10,456'	1-3/4	-1/4	62
10,518'	1-3/4	0	62

HOLE DIAMETER CHART

Results From Caliper Log of Drilled 12-1/4 inch Hole

HOLE LESS THAN 16 INCH DIAMETER		HOLE GREATER THAN 16 INCH DIAMETER	
5170 - 5230	(60)	2095 - 5170	(3075)
5400 - 5550	(150)	5230 - 5400	(170)
5660 - 5900	(240)	5550 - 5660	(110)
6080 - 6450	(370)	5900 - 6080	(180)
6530 - 6880	(350)	6450 - 6530	(80)
7050 - 7120	(70)	6880 - 7050	(170)
7150 - 7240	(90)	7120 - 7150	(30)
7410 - 7770	(360)	7240 - 7410	(170)
7850 - 8340	(490)	7770 - 7850	(80)
8430 - 8590	(160)	8340 - 8430	(90)
8640 - 8770	(130)	8590 - 8640	(50)
8840 - 8910	(70)	8770 - 8840	(70)
8950 - 9160	(210)	8910 - 8950	(40)
9180 - TD	<u>(1381)</u>	9160 - 9180	<u>(20)</u>
TOTAL	4131	TOTAL	4335



BAROID LOGGING SYSTEMS

APPLIED DRILLING TECHNOLOGY
MORNING REPORTDEPTH 6153
OPERATION Drilling
FOOTAGE 61NO 78
DATE 5/25/81
TIME 0500OPERATOR Phillips Petroleum WELL NAME Phillips Petroleum Site "A" No. 1 FIELD BLOCK WILCOX
CONTRACTOR Baroid Drilling RIG NO. 166 CO. PARISH CALHOUN
STARTING DATE 3/18/81 SEC 14 TWP 20S RANG 23E STATE ARIZONA

LOGGING DATA

GAS units 0 CO. (ppm) 0 H.S. (ppm) 0 LITHOLOGY Limestone, Shalestone DRILL RATE min/ft 5.0
BACKGROUND 0 CONNECTION 0 TRIP CHLORIDES 0 CORR. D EXP. 1.62
TRIP 0 LAG DOWN DP 11.20 SHALE DENSITY 1.62
FLOWLINE TEMP 117.3 °F LAG OFF BOTTOM 12.307 DELTA CL 0

FORMATION PRESSURE DATA

CASING SEAT BOTTOM HOLE OPEN HOLE
PORE PRESSURE 704 psi 8.3 ppb 2655 psi 8.3 ppb 6153 ft
FRACTURE PRESSURE 1330 psi 12.4 ppb 4131 psi 15.1 ppb 6153 ft
ECG 0 psi 0 ppb 0 psi 0 ppb 0 psi

MUD DATA

TIME 0405
TYPE Gel-Floam-Drillpac
WEIGHT in out 9.9
FUNNEL VIS. 31
PV/VP 4 1
GELS 1 2
pH 10.5
FILT CAKE API 19 2/32
HP-HT 0
Pm 11
P/M 11 18
CHLORIDES ppm 400
CALCIUM ppm 0
SOLIDS 0
OIL 0
DAILY/CUMUL. COST 655 81.083

BIT DATA

BIT NO 29
TYPE F3
SIZE 12.25
JETS 11, 12, 12
DEPTH out 12.5
ROT HRS. 61
FOOTAGE 5.0
AV. FT./HR 11.7
GRADED T-B 0
GAUGE 2" O. 4118
HOLE DEV. 357.10
COST FT 15
WOB 60
RPM 0
REMARKS

HYDRAULIC DATA

PUMP Triplex 2 Triplex
SIZE in 12.65 12.65
CAPACITY gal/stk 466 466
PUMP RATE stk/min 104
FLOW RATE gal/min 486
PRESSURE psi 2150
PD SURF psi 35
DS psi 386
ANN psi 5
BIT psi 1741
JET VELOCITY ft/sec 472
JET IMPACT in 1046
BIT HP 497
HP RATIO 31.70
REDUCED 1 0 psi at 0 stk/min
PUMP 2 0 psi at 0 stk/min

ANNULUS DATA

LENGTH - FT VOLUME BBL/FT VELOCITY FT/MIN CRIT-VEL FT/MIN SLIP-VEL FT/MIN
DP 0.0 0.0 0.0 0.0 0.0
DP/CSG 4095 1172 36 18 0.0
DP/HOLE 3315 1215 95 26 0.0
DP/HOLE 457 1137 102 28 0.0
DC/ 0 0 0 0 0
DC/ 0 0 0 0 0
DC/HOLE 286 0.672 172 9 0.0

PIPE DATA

DRILL STRING CASING: SURF INT LONG LINER
DEPTH 40 2045 20.5 18.75 3409
CD-INCHES 5.0 5.75 3.0 3.0 3.0
ID-INCHES 4.216 2.915 3.0 3.0 3.0
CAP-BBL/FT. 0.076 0.080 0.087 0.087 0.087
DISP-BBL/FT. 0.065 0.041 0.0100 0.0100 0.0100
LENGTH-FT. 5410 457 286 286 286
WEIGHT-LB/FT. 19.5 66 112 112 112

RECOMMENDATIONS

MUD WEIGHT 0 JETS 0 IMPACT FORCE 0 PIPE SPEED 0
HYDRAULIC HP 0 CSG SPEED 0 ft/sec 0REMARKS
- REC'D 30 FT. CORE SAMPLE AND R.I.H. 41 NO. 29, REAM 30' TO BOTTOM
- REC. SLIP VELOCITY 0.0 FOR PARTICLE DIAMETER 11 INCH IN SAMPLE CASING
- AVERAGE TORQUE 170 HPM THIS BIT RUN
- CONTINUED HIGH PERCENTAGE CORNICE IN SAMPLE MAY INDICATE SLOUGHING PROBLEM, BOTTOMS UP TIME IS ALSO GREATER THAN IT SHOULD BE FOR A 12 1/4" HOLE
ADT REPRESENTATIVE LADY

GRAPHIC RECORD

**COMMENTS &
DRILLING HAZARDS**

FORMATION

DEPT

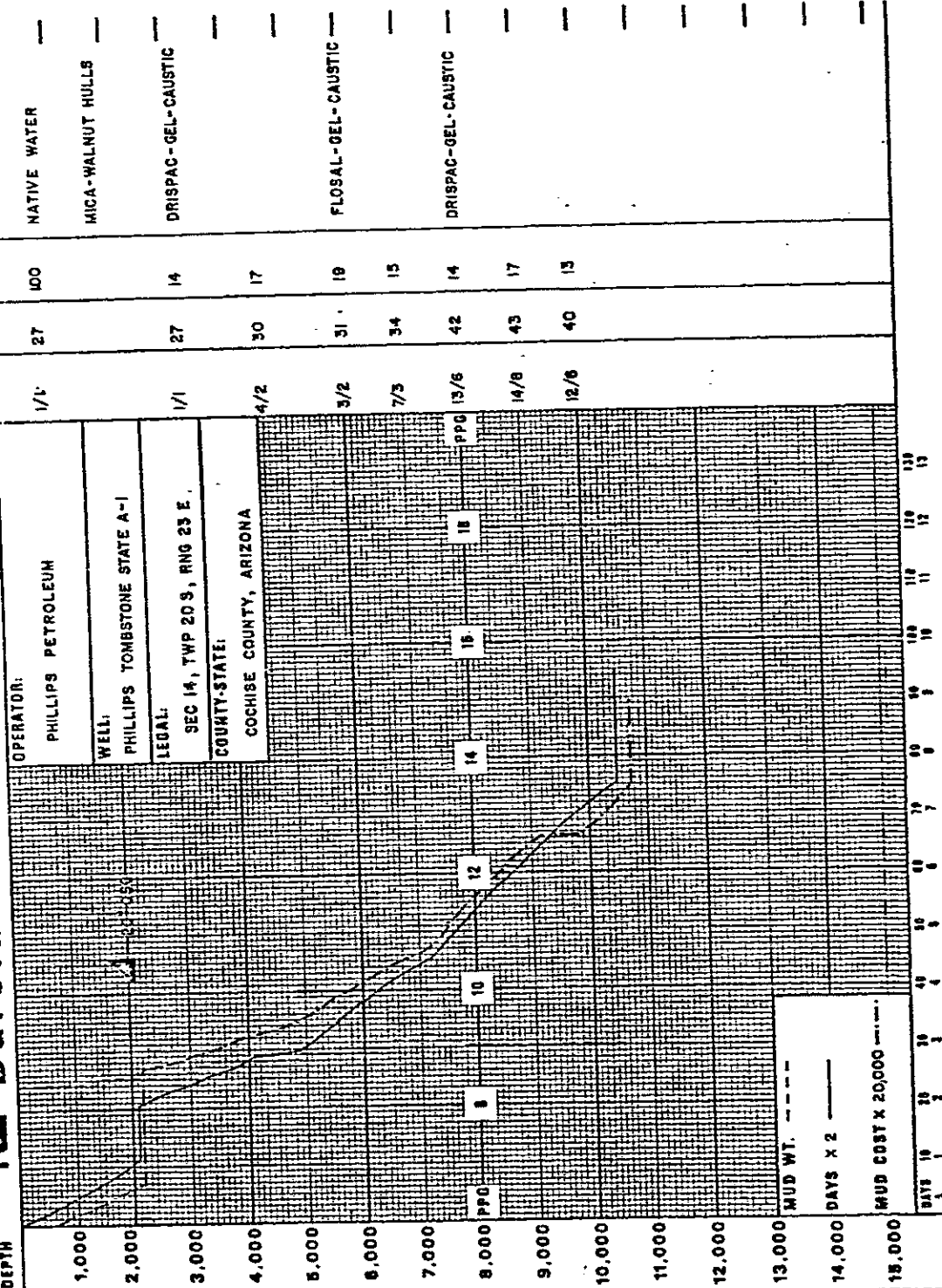
OPERATOR:

GRAPHIC RECORD

1

— OPEN HOLE
12 1/2" - 26"

OPEN HOLE
12 1/4" - 17 1/2"



BIT RECORD

COUNTY		STATE		FIELD		SEC		TWP		RNG		LOCATION		WELL NO.	
COCHISE		ARIZONA		WILCAT		14		20S		23E		PHILLIPS TOMBSTONE STATE		A-#1	
CONTRACTOR		OPERATOR		SPUD		UNDER SURF		UNDER INT		UNDER LONG		UNDER LINER		REACHED TO	
PARMER DRILLING		PHILLIPS PETROLEUM		3/8/81		40		2095						9/14/81	
NO	SIZE	TYPE	DEPTH	FEET	HOURS	FT	ACCUM	TRIP	HOURLY	COST	FT	PUMP	GRADE	VERT	REMARKS
			OUT			HR	DRLG	TIME	RIG			PPH	T	DEV	
1	12 1/4	STC D6J	437	367	32.5	11.3	32.5		550		10/12	100	6	8.4	
2	12 1/4	STC SD6H	787	270	24.5	11.0	57.0		550		10/15	100	6	8.4	
3	12 1/4	STC F3	1475	768	65.25	11.7	122.25		550	50.8	10	75/90	5	8.4	
4	12 1/4	HTC J33	1982	507	62.0	7.6	189.25		550	78.9	10	75		8.5	
RR3	12 1/4	STC F3	2118	136	47.0	5.0	216.25		550	154.6	10	75		8.5	OPEN 12 1/4" HOLE TO 17 1/2"
5	17 1/2	GRANT	1514	1444	29.0	44.8	245.25		550		12/15	50		8.5	
6	17 1/2	GRANT	2007	493	31.25	15.5	272.50		550		10/20	50		8.5	
7	17 1/2	GRANT	2117	110	11.0	1.0	282.5		550		15/20	50		8.5	
8	26	GRANT	302	232	34.25	6.7	320.25		550		10/15	50		8.5	OPEN 17 1/2" HOLE TO 26"
9	26	GRANT	509	209	47.0	4.5	370.25		550		10/20	50		8.5	
10	26	GRANT	1047	538	82.25	6.5	453.5		550		10/20	70	2	8.5	
									550						

BIT RECORD

COUNTY		STATE	FIELD		SEC	TWP	RNG	LOCATION		WELL NO.								
COCHISE		ARIZONA	WILDCAT		14	20S	23E	PHILIPS TOMSTOWN STATE		A - N°								
CONTRACTOR		OPERATOR	SPUD		UNDER SURF	UNDER INT	UNDER LONG	UNDER LINER	UNDER LINER	REACHED TO								
PARKER DRILL		PHILIPS PETROLEUM	3/11/81		40	2095				9/14/81								
NO	SIZE	TYPE	JET	DEPTH OUT	FEET	HOURS	FT DRLG	ACCUM HRS	TRIP TIME	HOURLY RIG COST	COST FT/YOB	RPM	PUMP FLOW PRES GPM	GRADE T B G	VERT DEV	REMARKS		
11	26	GRANT	18 24 18 24 18 24	1459	412	57.0	8.1	504.5		\$ 550.		10/20	70			8.6	LOST 21" CUTTER	
12	17 1/2	SEC HOS	-	1459	0	0	0	504.5		550		0	200			8.6		
13	26	GRANT	16 12 16 18 16 18	1543	84	30.75	2.7	534.25		550		10/20	50		4 4	8.6		
14	26	GRANT	15 24 18 24 20 24	1647	104	24.0	3.7	562.25		550		20	50/70		6 6	8.9		
15	26	GRANT	16 18 16 18 16 18	1974	222	42.25	4.8	609.50		550		10/20	60		4 4	9.0		
16	26	GRANT	18 18 18 18 18 18	2116	239	60.75	3.9	670.25		550		10/20	65			8.9		
17	12 1/4	STC F3	12 12 12	2121	3	2.25	1.3	672.50		550	258.5	10	40		8	8.7	RUN and JUNK	
18	12 1/4	HTC J33	12 12 12	2784	633	89.25	2.4	761.75		650	77.0	20	70		5 5	1/2	8.7	
19	12 1/4	STC F3	11 12 13	3583	729	93.25	2.8	855.0		550	83.3	20	70		5 4	3/4	8.6	
18	12 1/4	HTC J33	12 12 12	4050	467	41.75	11.2	896.75		550	62.6	20	70		6 5	1/2	8.8	
19	8 3/4	CHUBB. MC 23		4051	1	5.5	1.8	896.5		550		20	1000		8 -	3/4	8.7	NO RECOVERY

BIT RECORD

COUNTY		STATE		FIELD		SEC		TWP		RNG		LOCATION		WELL NO.						
COCHISE		ARIZONA		WILDCAT		14		20S		23E		PHILLIPS TOMASTONE STATE		A-1						
CONTRACTOR		OPERATOR		SPUD		3/8/81		UNDER SURF		UNDER LONG		UNDER LINER		REACHED TO						
PARKER DRUG.		PHILLIPS PETROLEUM						20S						9/14/81						
NO	SIZE	TYPE	JET	DEPTH OUT	FEET	HOURS	FT DRUG	ACCUM HRS	TRIP TIME	HOURLY RIG COST	COST FT/MB	RPM	PUMP PRES	FLOW GPM	GRADE		VERT MUD DEV WT	REMARKS		
															T	B			G	
20	12 1/4	HTC J33	12	4606	555	75.25	2.4	965.75		\$550.	85.5	20	2200	489	5	5	1/8	8.9		
21	12 1/4	STC F4	12	5010	404	71.0	5.7	1022.75		550	113	10/15	20	2200	489	5	5	1/8	8.9	
22	12 1/4	HTC J33	12	5135	125	32.0	3.9	1059.75		550	204	10/15	70	2250	449	4	8	I	8.9	
23	12 1/4	STC F3	12	5405	270	62.0	4.4	1121.75		550	155	10/12	60	2200	489	5	2	I	8.9	
24	12 1/4	HTC X33	12	5473	68	19.0	3.7	1138.75		550	266	10/20	60	2200	489	2	2	I	9.0	ROSH FOR CME BARREL
25	8 3/4	CHWS MC23		5479	6	5.0	1.2	1144.75		550		20	35	233	8	-	I	2.9	RETRIEVED 6' CORE	
26	12 1/4	HTC X33	12	5645	240	57.0	4.7	1195.75		550	155	19	60	2200	489	5	8	I	8.9	
27	12 1/4	STC F4	12	5862	217	43.35	4.9	1239.5		550	150	20	60	2200	489	4	4	I	1 3/4 8.9	
28	12 1/4	STC F4	12	6061	199	33.5	5.9	1273.		550	132	25	60	2150	489	2	2	I	3° 8.9	POOH FOR CONE BARREL
29	8 3/4	CHWS MC23		6093	32	8.0	4.0	1281		550		18	45	1000	489	2	-	I	8.9	RETRIEVED 30' CORE
29	12 1/4	STC F3	12	6503	410	86.25	4.7	1322.25		550	135.1	25	60	2150	489	5	5	I	9.0	

BIT RECORD

COUNTY		STATE		FIELD		SEC		TWP		RNG		LOCATION		WELL NO.					
COCHISE		ARIZONA		WILDCAT		14		203		23E		PHILLIPS TOMBSTONE STATE		A-41					
CONTRACTOR		OPERATOR		SPUD		UNDER SURF		UNDER INT		UNDER LONG		UNDER LINER		REACHED TO					
DARKER DRILL.		PHILLIPS PETROLEUM		3/8/81		40'		2095'						9/14/81					
NO	SIZE	TYPE	JET	DEPTH OUT	FEET	HOURS	FT ORLG	HRS	TRIP TIME	HOURLY RIG COST	COST FT/100	RPM	PUMP PRES	FLOW GPM	GRADE			VERT MUD DEV WT	REMARKS
															T	B	G		
28	8 3/4	CMIS MC23		6522	19	10.15	19	1372.50		550	450.	22	50	1100	489			9.1	
30	12 1/4	STC F4	12	6840	318	69.25	46	1446.75		550	123.5	30	60	2250	489	7	5	1/8	9.1
31	12 1/4	STC F4	12	7136	296	70.5	22	1572.25		550	143	1520	60	2000	489	6	5	1/4	9.12
32	12 1/4	HTC J44	12	7318	182	75.5	32	1572.75		550	252	12	60	2000	489	5	5	8	3 1/2 9.1
33	12 1/4	HTC J44	13	7502	189	73.25	26	1666.0		550	231	15	60	2000	489	4	3	1/4	3 3/4 9.1
34	12 1/4	STC F4	12	7760	253	85.25	29	1751.25		550	201	20	60	2150	489	8	8	1/2	3° 9.0
35	12 1/4	STC F5	12	7770	10	2.5	4.0	1753.75		550	1140	20	60	2290	489				3° 9.0
36	12 1/4	STC F5	12	7931	161	64.75	25	1818.50		550	288	15	60	2150	489	6	5	I	3 3/4 9.0
37	12 1/4	STC F4	12	8180	249	44.0	56	1862.50		550	140.9	20	65	2150	489				4 3/4 9.0
38	8 3/4	CMIS MC23	12	8187	70	8.0	28	1869.50		550		25	50	2150	489				4 3/4 9.0
39	12 1/4	STC F5	12	8365	178	72.55	25	1942.25		650	287.7	15	65	2100	489	5	5	1/8	4 3/4 8.9
40	12 1/4	HTC X44	12	8416	51	16.25	31	1958.50		550	407	10	15/	975	396	8	8	1/4	5° 9.0
			12																DINA DRILL

Bit stuck through well

CORE

DINA DRILL

BIT RECORD

COUNTY		STATE		FIELD		SEC		TWP		RNG		LOCATION		WELL NO.			
COCHISE		ARIZONA		WILDCAT		14		20 S		23 E		PHILLIPS TRANSFORMER		A-1			
CONTRACTOR		OPERATOR		SPUD		UNDER SURF		UNDER INT		UNDER LONG		UNDER LINER		REACHED TO			
PARKER DRUG.		PHILLIPS PETROLEUM		3/8/81		40'		2095'						9/14/81			
NO	SIZE	TYPE	JET	DEPTH OUT	FEET	HOURS	FT DRLG	ACCUM HRS	TRIP TIME	HOURLY RIG COST	COST FT/YOB	APR PRES	PUMP FLOW	GRADE T B G	VERT MUD DEV	REMARKS	
41	12 1/4	HTC X44	20 20 20	8490	74	24.25	3.2	1983.25		\$550.	339.4	15/300	975	8	1/4	4° 9.0	DYNA DRILL
42	12 1/4	HTC J44	20 20 20	8578	88	23.5	3.2	2006.25		550	284.6	15/300	975	5	1/8	3 3/4° 9.0	DYNA DRILL
43	12 1/4	STC F4	20 20 20	8667	89	24.5	3.2	2031.25		550	284.3	15/300	975	8	1/4	3 3/4° 9.0	DYNA DRILL
44	12 1/4	STC F5	12 12 13	8837	170	69.25	2.4	2101.0		550	293.9	15	65	5	1/8	4° 9.0	WASHOUT
45	8 3/4	CHAS MC23	12 12 13	8740	3	5.0		2106.		550		20	55			4° 9.0	CORE - RETRIEVE 8"
46	8 3/4	CHAS MC23	12 12 13	8644	4	3.25		2109.25		550		20	55			4° 9.0	CORE - RETRIEVE 3'
47	12 1/4	STC F4	12 12 13	9088	140	49.75	2.8	2159.5		550	251	65	2150	5	1/8	5° 9.0	AIR WASHED THROUGH WELD
48	12 1/4	STC F4	12 12 13	9008	20	11.5	1.7	2171.0		550	905	10	65			5° 9.1	WASHOUT
49	12 1/4	STC F4	20 20 20	9046	39	24.0	2.1	2198.0		550	426	10	1150	8	1/8	4° 9.0	DYNA DRILL
50	12 1/4	HTC X44	20 20 20	9121	75	18.0	4.2	2220.0		550	285	15	1150	6	1/4	9.0	DYNA DRILL
51	12 1/4	STC F4	20 20 20	9186	65	17.5	3.7	2287.5		550	335	10	1000	5	1/4	9.0	DYNA DRILL
52	12 1/4	STC F4	12 12 13	9365	179	61.75	2.9	2349.25		550	254	15	65			9.0	

BIT RECORD

COUNTY		STATE		FIELD		SEC		TWP		RNG		LOCATION		WELL NO.					
COCHISE		ARIZONA		WILLOCAT		14		20S		23E		PHILLIPS/TOMBSTONE STATE		A - #1					
CONTRACTOR		OPERATOR		SPUD		UNDER SURF		UNDER INT		UNDER LONG		UNDER LINER		REACHED TO					
PARKER		PHILLIPS PETROLEUM		3/8/81		40		209S						9/14/81					
NO	SIZE	TYPE	DEPTH OUT	FEET	HOURS	FT DRLG	ACCUM HRS	TRIP TIME	HOURLY RIG COST	COST FT/100	RPM	PUMP FLOW PRES GPM	GRADE			VERT MUD DEV	WT	REMARKS	
													T	B	G				
52	12 1/4	STC F4	9524	159	38 3/4	4.1	9388.50		550	190	25	65	2200	485	8	5	1/8	9.0	
53	12 1/4	HTC J55-R	9781	256	51 1/4	4.99	9439.75		550	150.9	25	65	2150	485	8	8	1	9.0	
54	12 1/4	STC F5	9992	211	45 3/4	4.6	9485.50		550	171.9	30	50	2150	485	5	4	1/8	9.0	
55	12 1/4	STC F5	10,301	309	71 3/4	4.3	9557.25		550	166.5	38	55	2200	485				8.9	
56	12 1/4	HTC J55-R	10,452	151	30 3/4	4.9	9588.00		550	140.7	35	60	2200	485	6	5	1/4	9.0	
57	12 1/4	HTC X44	10,560	108	31 3/4	3.4	9619.75		550	263.7	30	55	2200	485	8	8	1/4	9.1	
58	17 1/2	GRANT	3640	1545	52 1/4	2.6	9672.00		550		10 1/30	55	1000	485	8	8	1	9.1	LOOSE CUTTER BROKEN TEETH
59	17 1/2	GRANT	4100	460	17 3/4	2.3	9689.75		550		10 1/30	60	1200	490	4			8.9	WASHOUT IN WELD
60	17 1/2	GRANT	5024	924	42	22	9731.75		550		10 1/30	60	1500	840	6	8	1/4	9.1	HEEL PAC OUT OF PILOT 1 CONE BAD BEARING
61	17 1/2	GRANT	5632	608	38 1/4	15.9	9770.00		550		10 1/30	60	1800	840	8	8	4	9.0	1 CONE LOOSE LOST PILOT BIT
62	12 1/4	STC F4	5632	0	-		9770.00		550										TAG FISH
63	17 1/2	GRANT	5673	41	7 1/4	5.7	9777.25		550		10 1/30	60	1700	836	8	8	1/4	9.1	REAMED OUT OF CASE HOLE 250' LOST PILOT BIT (#2)

LOOSE CUTTER
BROKEN TEETH
WASHOUT IN WELD

HEEL PAC OUT OF PILOT
1 CONE BAD BEARING
1 CONE LOOSE
LOST PILOT BIT

TAG FISH

REAMED OUT OF CASE HOLE 250'

LOST PILOT BIT (#2)

BIT RECORD

COUNTY		STATE		FIELD		SEC		TRIP		RING		LOCATION		WELL NO.					
COCHISE		ARIZONA		WILDCAT		14		20 S		23 E		PHILLIPS TOMBSTONE STATE		A - NO.1					
CONTRACTOR		OPERATOR		SPUD		UNDER SURF		UNDER INT		UNDER LONG		UNDER LINER		REACHED TO					
PARKER		PHILLIPS PETROLEUM		3/8/81		40		2095						9/14/81					
WD	SIZE	TYPE	JET	DEPTH OUT	FEET	HOURS	FT HR	ACCUM DRLG HRS	TRIP TIME	HOURLY RIG COST	COST	FT/HR	RPM	PUMP PRES	FLOW GPM	GRADE T B G	VERT DEV	MUD WT	REMARKS
63	17 1/2	GRANT	12 24 12 24 12 24	5689	16	2 1/2	6.4	9799.75		550		10/30	60	1900	840			9.0	PWDG BEHIND CUTTER FELL OUT 300 PSI DROP
64	17 1/2	GRANT	13 18 13 18 13 18	5830	141	13 1/2	10.4	9793.25		550		10/30	50	1900	940			9.0	DRILL TO TOP OF FISH
65	17 1/2	STC 435	18 18 18 18	5832	2	1	2	9795.25		550		10	50	900	480			9.0	FINISH DRILLING OUT TO FISH
66	12 3/4	STC F4	20 20 20 20	6621	0	0	0	9795.25		550		10/30	10/20	1800	465			9.1	RUN IN AND TAG FISH NO DRILLING
66	17 1/2	GRANT	12 24 12 24 12 24	6352	520	30 3/4	18.8	9826.00		550		10/30	50	1800	840	5 8 1/2		8.9	
67	17 1/2	GRANT	14 22 14 22 14 22	6442	90	18 3/4	9.8	9844.75		550		10/20	60	1250	840	8 8 1/4		9.0	2 LOOSE CUTTERS
68	17 1/2	GRANT	12 24 12 24 12 24	6615	173	28 1/4	6.12	9873.00		550		10/20	60	1900	836	8 8 1/4		9.0	CHECK DRILL COLLARS
68	17 1/2	STC 435	19 19 19 19	6631	16	2 3/4	6.3	9875.75		550		20	50	1000	465			9.0	
69	17 1/2	GRANT	12 24 12 24 12 24	6836	203	32	6.2	9907.75		550		10/30	55	1800	830	8 8 1/4		9.1	
70	12 3/4	MILL TOOTH		7671	0	0	0	9907.75		550		10/30	60	900	465	8		9.1	TAG AND PUSH FISH
71	17 1/2	GRANT	12 24 12 24 12 24	7108	272	36 1/4	7.5	9944.00		550		10/30	50	2100	840	8 8 1/2		9.0	
72	17 1/2	GRANT	13 18 13 18 13 18	7277	164	25	6.7	9969.00		550		10/30	55	2150	860			9.0	

BIT RECORD

[illegible]

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- 2000

— 400 —

500

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100

1. **Introduction**

100

1

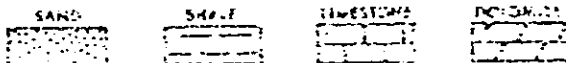


WELL PHILLIPS TOMBSTONE STATE A-NO.1
COMPANY PHILLIPS PETROLEUM
LOCATION COCHISE CO., ARIZONA

LEGEND

TCL TRIP CHLORIDES
NB NEW BIT
NCE NEW CORE BIT
EST DRILL STEEL TEST
TG TRIP GAS

MB MUD RETURN
EL ELECTRIC LOG
CC CIRCULATE OUT RETURN
CVF CHECK FOR FLUID



BAROID
LOGGING
SYSTEM
FOR USE IN
WELLS
TO 10,000
FEET

DRILLING RATE

FE/HR. 10 20 30

5 10 15

TOTAL GAS

CC/HR. GAS - PER HOUR
50 100

FLOW LINE TEMPERATURE

100 150

SHALE DENSITY

22 23 24 25 26

SHALE FACTOR

ESTIMATED FOUL PRESS.

ADD WEIGHT

FRAC TURE GRABING

10 12 14 16

LITHOLOGY

DEPTH

FEET

STARTED LOGGING MARCH 8, 1981

30" CONDUCTOR PIPE SET AT 40'

NB1 DGJ 12 1/4

NB2 SDGH

NB3 F3

NB4 J33

RR3

NB15 F3

NB16 J33

NB17 F3

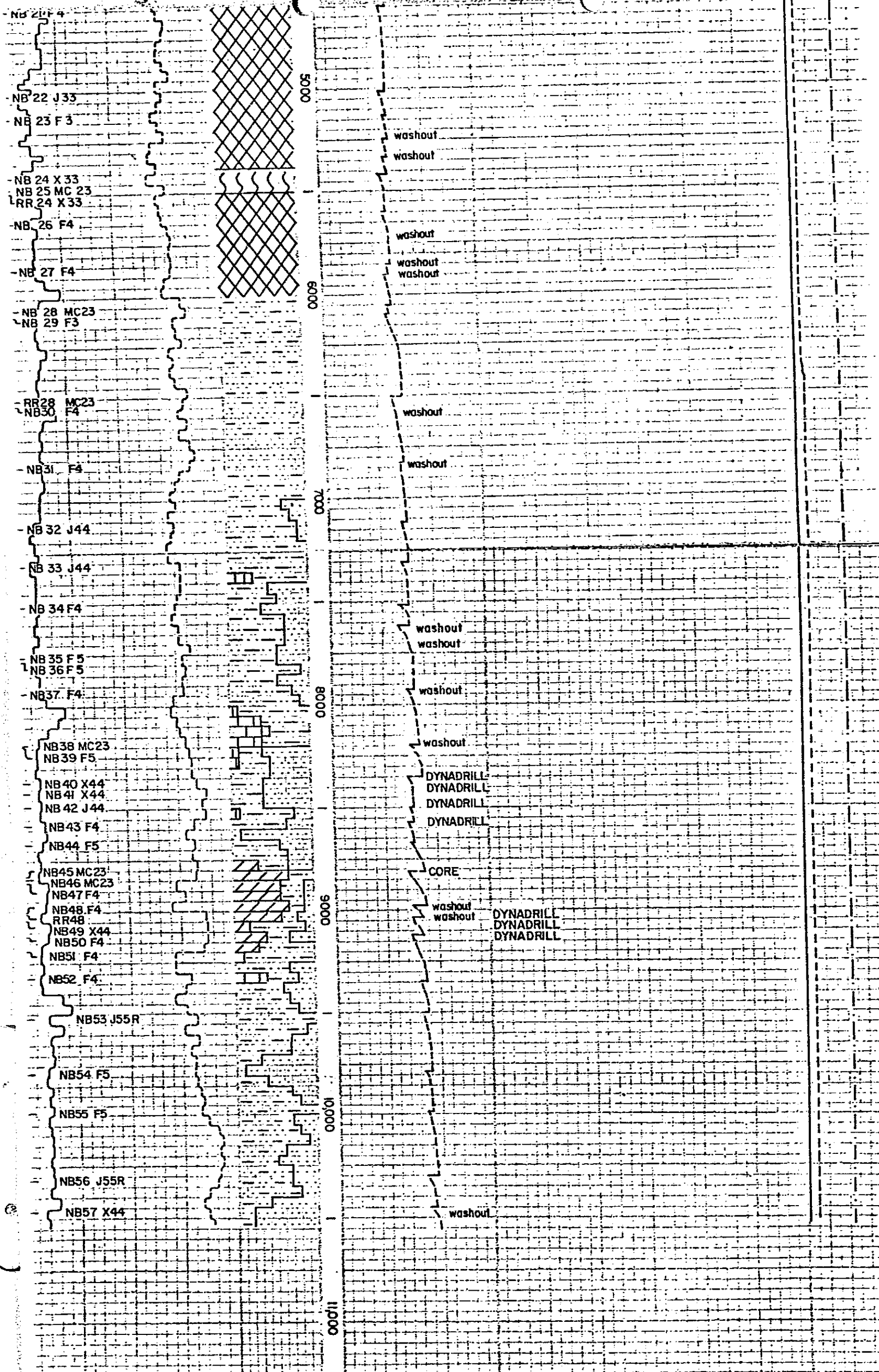
NB18 J33

NB19 MC 23

NB20 J33

RUN 17.5" AND 26" HOLE OPENERS - BN5 - BN14
SET 20" CASING AT 2095'

washout



DAILY REPORT DETAILED

RECEIVED

SEP 21 1981

O & G CONS. COMM.
SHEET NO. 13

LEASE TOMBSTONE STATE A

WELL NO. 1

DATE	NATURE OF WORK PERFORMED	TOTAL DEPTH
1981		

Sept.

5-8

9

10

11

12-14

15

16

17

716

TOMBSTONE STATE-A WELL NO. 1 TD 10561. MILL ON JUNK. 9/5/81-REAMED 17-1/2 IN. TO 7442 FT. 92 FT. TRIP TO CHANGE HO. WIH. MUD 9.1, VIS 43, WL 10.2. 9/6/81 - OPEN 12-1/4 IN. HOLE TO 17-1/2 IN. TO 7558 FT., 116 FT. COOH TO CHANGE HOLE OPENER. MUD 9.1, VIS 42, WL 11.0. 9/7/81 - FIN COOH. BIM HALF OF HO SHEARED OFF, LEFT 3 CUTTERS, 3 PINS, LOWER HO BODY AND 12-1/4 BIT IN HOLE. PU MAGNET, WIH, WORK ON FISH. COOH, NO REC. LD MAGNET, PU 12-1/4 BIT, WIH, WORK ON FISH, COOH, LD BIT. PU MAGNET, WIH, WORK ON FISH. COOH. NO REC. LD MAGNET, PU JUNK BASKET. MUD 9.1, VIS 43, WL 10.5. 9/8/81 PU FISHING TOOLS, START IH, SLIPPED OUT OF GEAR AND DROPPED BLOCKS. DOWN 14 HOURS STRINGING LINE. COOH TO CHECK DRILL STRING. WIH, WASHED AND REAMED 30 FT. TO BTM. ATTEMPT TO MILL OVER FISH..

TOMBSTONE STATE-A WELL NO. 1 TD 10561. WIH W/MAGNET, WSH OVER FISH W/POOR BOY BASKET. CHAIN OOH, NO REC. PU MAGNET, WIH, WORK ON FISH. COOH, NO REC. LD MAGNET, PU MILL. WIH, MILL ON FISH. COOH. LD MILL, PU MAGNET. WIH. MUD 9.2, VIS 41, WL 10.5..

TOMBSTONE STATE-A WELL NO. 1 TD 10561. WO SHOTS. FIN GIH W/14 IN. MAGNET, WORK ON JUNK W/MAGNET. CHAIN OOH, NO REC. LD BHA, WIH, CIRC AND COND HOLE. WO DOWN HOLE SHOT. MUD 9.1, VIS 43, WL 10.2..

TOMBSTONE STATE-A WELL NO. 1 TD 10561. FISHING FIRING HEAD W/WL. CIRC AND COND HOLE, COOH, MAKE UP JUNK SHOT, WIH W/JUNK SHOT, DROP FIRING HEAD, DID NOT FIRE, FISH FIRING HEAD W/WL, COOH W/JUNK SHOT, WIH W/JUNK SHOT, CIRC ON FISH. DROP FIRING HEAD, DID NOT FIRE, FISH FIRING HEAD W/WL. MUD 9.2, VIS 42, WL 10..

TOMBSTONE STATE-A WELL NO. 1 TD 10561. MILLING ON JUNK. 9/12/81 COOH W/FIRING HEAD ON WL. WIH 30 STDS. SET JUNK SHOT ON JUNK. RAN FIRING HEAD ON WL, NO SHOT. COOH W/FIRING HEAD ON WL. CIRC HOLE. COOH W/JUNK SHOT. LD JUNK SHOT. PU 9 IN. JUNK BASKET AND 12-1/4 IN. BIT. WIH. CIRC AND WORKED ON JUNK. COOH. PU 17-1/2 IN. 3-PT REAMER AND 12-3/4 IN. IMPRESSION BLOCK. CIRC AND SET DOWN ON FISH. START COOH W/IMP BLOCK. MUD 9.2, VIS 42, WL 10.2. 9/13/81 - FIN COOH W/IMP BLK. LD IMP BLK. RU SCHL., RUN VELOCITY SURVEY. RD SCHL. WIH W/7-1/4 IN. X 3.7 FT. EXTENSION. CIRC AND WORK ON JUNK. COOH, EXTENSION WORN ON BTM W/SCRATCHES 1-1/2 FT. UP FROM BTM. PU JUNK SHOT. START GIH W/JUNK SHOT. 9/14/81 - FIN GIH W/JUNK SHOT. RUN FIRING HEAD ON WL 3 TIMES, NO SHOT. COOH TO CHG JUNK SHOT. WIH, CIRC ON FISH. RUN FIRING HEAD, SHOT FIRED AT 7556 FT. COOH, CHECK TORQUE ON ALL DC/S. PU JUNK MILL AND 2 JUNK BASKETS. WIH. NOW MILLING ON JUNK AT 7557 FT. MUD 9.1, VIS 41, WL 11.2..

TOMBSTONE STATE-A WELL NO. 1 TD 10561. LDDP. MILLED ON JUNK. COOH W/MILL. MILL WORN SMOOTH ON BTM, NO REC IN JUNK BASKETS. LD FISHING TOOLS. LD BHA. PU 25 JTS DP. WIH. CIRC HOLE. HOWCO SET PLUG FROM 7556-7456 FT. W/190 SX CLASS G W/ 1/10 OF 1 PERCENT HR-7. LD 102 JTS DP. MUD 9.1, VIS 41, WL 10.5..

TOMBSTONE STATE-A WELL NO. 1 TD 10561. ND BOP/S. LDDP. RU HOWCO. LAYED PLUG 2195-1995 FT. W/356 SX CLASS G CMT. LD 68 JTS DP. LAYED 25 SX CLASS G CMT PLUG IN TOP OF SURF CSG. LOADED OUT CASG. START ND BOP..

TOMBSTONE STATE-A WELL NO. 1 P AND A. ND BOP/S. CLEAN CELLAR. CUT OFF HEAD. SET DRY HOLE MARKER. RELEASED RIG AT 12/00 MINDIGHT. 9/16/81. PLUGGED AND ABANDONED 9/16/81. FINAL REPORT..

DAILY REPORT DETAILED

LEASE TOMBSTONE STATE A

WELL NO. 1

SHEET NO. 12

1981 DATE TOTAL
NATURE OF WORK DEPTH
PERFORMED

August

22-24

TOMBSTONE STATE-A WELL NO. 1 TD 10561. REAMING 17-1/2 IN. HOLE. 8/22/81 - DRLD 17-1/2 IN. HOLE TO 5832 FT. COOH. PU FISHING TOOLS TO WASH OVER FISH, COULD NOT GET BELOW 3550 FT. W/STIFF 17 IN. ASSEMBLY. COOH. WIH W/BIT SUB BELOW 17-1/2 IN. REAMER BODY, COULD NOT TAG FISH. START COOH W/BIT SUB. MUD 9.1, VIS 42, WL 11. 8/23/81 FIN COOH W/BIT SUB. WIH W/12-1/4 IN. BIT. WASHED AND REAMED TO 6621 FT., TAGGED FISH. COOH. WIH W/BIT SUB, ATTEMPT TO SCREW INTO FISH, UNSUCCESSFUL. COOH. LD FISHING TOOLS. PU HOLE OPENER, WIH, REAMED 60 FT. TO BTM. OPEN HOLE TO 17-1/2 IN. TO 5841 FT. MUD 9.1, VIS 49, WL 13. 8/24/81 - OPENED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 6295 FT., 454 FT. MUD 9.1, VIS 41, WL 12..

25

TOMBSTONE STATE-A WELL NO. 1 TD 10561. REAMING 17-1/2 IN. HOLE. OPENED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 6352 FT. TRIP TO CHG HOLE OPENER. REAMED 80 FT. TO BTM. OPENED HOLE TO 6418 FT. TOTAL 123 FT. MUD 9.1, VIS 38, WL 11.8..

26

TOMBSTONE STATE-A WELL NO. 1 TD 10561. REAMING 17-1/2 IN. HOLE. OPENED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 6442 FT. TRIP TO CHG HOLE OPENER. REAMED 60 FT. TO BTM. OPENED HOLE TO 6511 FT. TOTAL 93 FT. MUD 9.1, VIS 40, WL 12.2..

27

TOMBSTONE STATE-A WELL NO. 1 TD 10561. MAGNAFLUXING BHA. OPENED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 6615 FT., 104 FT. COOH, INSPECT BHA. MUD 9.1, VIS 41, WL 12..

28

TOMBSTONE STATE-A WELL NO. 1 TD 10561. WIH W/BASKET. FIN INSPECTING BHA. WIH W/17-1/2 IN. BIT. DRLG TO TOP OF FISH AT 6631 FT. CIRC BMS UP, STRAP OOH. LD BHA. PU FISHING TOOLS. START GIH, RMG TIGHT HOLE. MUD 9.1, VIS 46, WL 11..

29-31

TOMBSTONE STATE-A WELL NO. 1 TD 10561. PUSHING JUNK TO BTM. 08/29/81 - WASHED AND REAMED TO BTM W/JUNK BASKET. ATTEMPTED TO WASH OVER FISH 6631-6634 FT. COOH. NO REC. LD BASKET. PU IMPRESSION BLOCK. WIH W/IMPRESSION BLOCK, TOP OF FISH 6878 FT. COOH. PU HOLE OPENER, CUTTING DRLG LINE. MUD 9.1, VIS 44, WL 10.8. 8/30/81 WIH W/HOLE OPENER. OPENED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 6760 FT., 129 FT. MUD 9.1, VIS 42, WL 10.6. 8/31/81 - OPENED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 6836 FT. COOH. PU JUNK MILL. WIH. STARTED PUSHING FISH TO BTM. PUSHED TO 7671 FT. MUD 9.1, VIS 41, WL 11.0..

Sept.

1

TOMBSTONE STATE-A WELL NO. 1 TD 10561. RMG 17-1/2 IN. HOLE. MILLED AND JARRED ON FISH AT 7671 FT., FISH WOULD NOT GO DOWN HOLE. COOH. LD MILL. PU HOLE OPENER, WIH, WASHED AND REAMED 60 FT. TO BTM. OPENED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 6950 FT. MUD 9.1, VIS 43, WL 10.6..

2

TOMBSTONE STATE-A WELL NO. 1 TD 10561. RMG 17-1/2 IN. HOLE. OPEN 12-1/4 IN. HOLE TO 17-1/2 IN. TO 7108 FT. START COOH. MUD 9.1, VIS 42, WL 10.5..

3

TOMBSTONE STATE-A WELL NO. 1 TD 10561. REAMING. FIN COOH. PU HOLE OPENER. WIH OPENED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 7217 FT., 109 FT. MUD 9.1, VIS 43, WL 10.8..

4

TOMBSTONE STATE-A WELL NO. 1 TD 10561. REAMING. OPEN 12-1/4 IN. HOLE TO 17-1/2 IN. TO 7277 FT. TRIP FOR HOLE OPENER CHG, OPEN HOLE TO 7343 FT. MUD 9.1, VIS 40, WL 10.5..

716

DAILY REPORT DETAILED

RECEIVED

LEASE TOMBSTONE STATE-A

WELL NO. 1

SHEET NO. 11

AUG 24 1981

O & G CONS. COMM.

DATE TOTAL
NATURE OF WORK DEPTH
PERFORMED

August

8-10

TOMBSTONE STATE-A WELL NO. 1 TD 10561. REAMING. 8/8/81 - FIN LOGGING. RAN DIL, FDC-CNL, BHC SONIC AND CDM. WIH. START LDDP. MUD 9.1, VIS 42, WL 15.5. 8/9/81 - CHGD OUT 8500 FT. DP. PU BHA. REAMED 348 FT. TO 2443 FT. MUD 9, VIS 35, WL 14. 8/10/81 - OPENED 12-1/4 IN. HOLE TO 17-1/2 IN. HOLE TO 3267 FT., 824 FT. MUD 9.0, VIS 39, WL 12..

11

TOMBSTONE STATE-A WELL NO. 1 TD 10561. TRIPPING. OPENED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 3640 FT. PROGRESS 373 FT. COOH TO CHANGE HOLE OPENERS. START IH. MUD 9.1, VIS 38, WL 11.6..

12

TOMBSTONE STATE-A WELL NO. 1 TD 10561. REAMED 276 FT. TO 3917 FT. MUD 9.1, VIS 41, WL 11..

13

TOMBSTONE STATE-A WELL NO. 1 TD 10561. REAMING 17-1/2 IN. HOLE. REAMED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 4100 FT. TRIP TO CHG HOLE OPENER. REAMED TO 4365 FT. TOTAL 449 FT. MUD 9.1, VIS 38, WL 12..

14

TOMBSTONE STATE-A WELL NO. 1 TD 10561. REAMING 17-1/2 IN. HOLE. REAMED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 4860 FT., 495 FT. MUD 9.1, VIS 40, WL 11.6..

15-17

TOMBSTONE STATE-A WELL NO. 1 TD 10561. COOH. 8/15/81 - OPENED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 5177 FT., 317 FT. MUD 9.1, VIS 39, WL 12. 8/16/81 - OPENED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 5550 FT., 373 FT. MUD 9.1, VIS 40, WL 12.8. 8/17/81 - OPENED HOLE TO 5632 FT., 82 FT. COOH, LEFT 12-1/4 IN. PILOT BIT IH. WIH W/12-1/4 IN. BIT. TAGGED FISH AT 5832 FT. COOH. WIH W/BIT SUB. ATTEMPTED TO SCREW INTO FISH, NOSUCCESS. SET DOWN 50,000 LB. START COOH W/BIT SUB. MUD 9.1, VIS 43, WL 12..

18

TOMBSTONE STATE-A WELL NO. 1 TD 10561. REAMING 17-1/2 IN. HOLE. FIN COOH W/BIT SUB. PU HOLE OPENER. REAMED 232 FT. TO BTM. REAMED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 5667 FT. MUD 9.1, VIS 40, WL 12.5..

19

TOMBSTONE STATE-A WELL NO. 1 TD 10561. COOH W/17-1/2 IN. BIT. REAMED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 5673 FT. COOH, LEFT 12-1/4 IN. PILOT BIT IH. WIH W/BIT SUB, SCREWED ONTO PILOT BIT. COOH, REC PILOT BIT. PU 17-1/2 IN. BIT. WIH. REAMED 120 FT. TO BTM. LOST 400 PSI PUMP PRESS. COOH. LEFT 17-1/2 IN. BIT IH. WIH W/BIT SUB. SCREWED ONTO BIT. START COOH. MUD 9.1, VIS 38, WL 12..

20

TOMBSTONE STATE-A WELL NO. 1 TD 10561. PU SHOCK SUB. FIN COOH, REC 17-1/2 IN. BIT. PU 3 PT RMR AND HOLE OPENER. WIH, REAMED 563 FT. TO BTM. OPENED HOLE TO 17-1/2 IN. TO 5689 FT. LOST 300 PSI PUMP PRESS. COOH, LOOKING FOR LEAK. FOUND PLUG OUT ON HOLE OPENER. CHANGE OUT BHA. MUD 9.1, VIS 37, WL 12.4..

21

TOMBSTONE STATE-A WELL NO. 1 TD 10561. RMG W/17-1/2 IN. BIT. WIH W/HOLE OPENER. OPENED 12-1/4 IN. HOLE TO 17-1/2 IN. TO 5830 FT. COOH. LD HOLE OPENER AND 3 PT REAMER. PU 17-1/2 IN. PIT. WIH. WASHED AND REAMED 5750 FT. TO 5830 FT. TOP OF 12-1/4 IN. PILOT BIT 5832 FT. MUD 9.1, VIS 40, WL 11.6..

From D. J. Fisher
Operations Supt
Phillips Petr. Co.
P.O. Box 2920
Casper, WY 82602

DAILY REPORT DETAILED

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LEASE TOMBSTONE STATE AWELL NO. 1SHEET NO. 19810

O & G CONS. COMM.

1981

DATE
NATURE OF WORK
TOTAL
DEPTH
PERFORMEDJuly
21

TOMBSTONE STATE-A WELL NO. 1 D 9299. DRLD TO 9299 FT., 75 FT. SURVEYS - 3-3/4 DEG AT 9255 FT., 4 DEG AT 9287 FT. MUD 9, VIS 43, WL 16.8..

22

TOMBSTONE STATE-A WELL NO. 1 D 9359. DRLD TO 9359 FT., 60 FT. SURVEYS - 4 DEG AT 9317 FT., 4 DEG AT 9348 FT. MUD 9.0, VIS 44, WL 17.5..

23

TOMBSTONE STATE-A WELL NO. 1 D 9400. DRLD TO 9365 FT. TRIP FOR BIT. TESTED BOP. WIH. REAMED 60 FT. TO BTM. DRLD TO 9400 FT. SURVEY - 4 DEG AT 9365 FT. MUD 9.0, VIS 43, WL 17.8..

24

TOMBSTONE STATE-A WELL NO. 1 D 9516. DRLD TO 9516 FT., 116 FT. SURVEYS - 3-1/2 DEG AT 9411 FT., 3 DEG AT 9443 FT., 3-1/4 DEG AT 9474 FT., 3 DEG AT 9507 FT. MUD 9.0, VIS 45, WL 18..

25-27

TOMBSTONE STATE-A WELL NO. 1 D 9781. 7/25/81 - DRLD TO 9525 FT. TRIP FOR BIT. DRLD TO 9587 FT. SURVEY - 2-3/4 DEG AT 9570 FT. MUD 9.0, VIS 45, WL 18. 7/26/81 - DRLD TO 9694 FT., 107 FT. SURVEY - 3-1/2 DEG AT 9634 FT. MUD 9.0, VIS 42, WL 18. 7/27/81 - DRLD TO 9781 FT., 87 FT. SURVEYS - 2-1/2 DEG AT 9696 FT., 3 DEG AT 9759 FT. MUD 9.0, VIS 42, WL 18.4..

28

TOMBSTONE STATE-A WELL NO. 1 D 9852. FIN COOK. PU NEW BIT, WIH. DRLD TO 9852 FT. SURVEYS 3 DEG AT 9781 FT., 2-1/2 DEG AT 9823 FT. MUD 9.0, VIS 41, WL 17.9..

29

TOMBSTONE STATE-A WELL NO. 1 D 9959. CIRC SAMPLES. DRLD TO 9959 FT., 107 FT. CIRC FOR SAMPLES. SURVEYS - 2-1/4 DEG AT 9885 FT., 2-1/4 DEG AT 9948 FT. MUD 9.0, VIS 39, WL 17.5..

30

TOMBSTONE STATE-A WELL NO. 1 D 10007. DRLD 33 FT. TO 9992 FT. TRIP FOR BIT. WASH 30 FT. TO BTM. DRLD 15 FT. TO 10007 FT. SURVEY - 2-1/4 DEG AT 9992 FT. MUD 8.9, VIS 44, WL 18..

31

TOMBSTONE STATE-A WELL NO. 1 D 10097. DRLD TO 10097 FT., 90 FT. SURVEY - 2 DEG AT 10050 FT. MUD 9.0, VIS 41, WL 18..

Aug
1-3

TOMBSTONE STATE-A WELL NO. 1 D 10331. 8/1/81 - DRLD 100 FT. TO 10197 FT. SURVEYS - 1-3/4 DEG AT 10113 FT. AND 10175 FT. MUD 8.9, VIS 41, WL 17. 8/2/81 - DRLD 103 FT. TO 10300 FT. SURVEY - 1-3/4 DEG AT 10237 FT. MUD 8.9, VIS 42, WL 17.5. 8/3/81 - DRLD 31 FT. TO 10331 FT. TRIP TO CHG BIT. MAGNAFLUX RHA. TEST BOP/S. OK. WIH. SURVEY - 2-1/4 DEG AT 10301 FT. MUD 9.0, VIS 42, WL 18..

4

TOMBSTONE STATE-A WELL NO. 1 D 10425. DRLD 93 FT. TO 10425 FT. SURVEYS - 2-1/4 DEG AT 10332 FT. AND 10363 FT. 2 DEG AT 10394 FT. MUD 9.1, VIS 47, WL 16..

5

TOMBSTONE STATE-A WELL NO. 1 D 10467. DRLD 42 FT. TO 10467 FT. TRIP FOR PRESS LOSS. REPLACED WASHOUT IN JARS. WIH. SURVEY - 1-3/4 DEG AT 10456 FT. MUD 9, VIS 57, WL 15..

6

TOMBSTONE STATE-A WELL NO. 1 D 10547. DRLD TO 10547 FT., 80 FT. SURVEY - 1-3/4 DEG AT 10518 FT. MUD 9, VIS 47, WL 16..

7

TOMBSTONE STATE-A WELL NO. 1 D 10561. LOGGING. DRLD 14 FT. TO 10561 FT. CIRC FOR LOGS. SHORT TRIP. COOK. RU SCHL. SURVEY - 2 DEG AT 10561. FT. MUD 9.1, VIS 47, WL 15..

FORM 91

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JUL 27 1981

LEASE TOMBSTONE STATE A

WELL NO. 1

O & G CONS. COMM.
SHEET NO. 91981
DATE
NATURE OF WORK PERFORMEDTOTAL
DEPTH

July

3-6

7

8

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11-13

14

15

16

17

18-20

TOMBSTONE STATE-A WELL NO. 1 D 8662. 7/3/81 - DRLD TO 8485 FT., 62 FT. SURVEYS - 4 DEG AT 8454 FT., 4 DEG AT 8483 FT. MUD 9.0, VIS 38, WL 13.6. 7/4/81 - DRLD TO 8490 FT. TRIP FOR BIT. REAMED 30 FT. TO BTM, DRLD TO 8534 FT. SURVEYS - 4 DEG AT 8490 FT. 3-3/4 DEG AT 8514 FT. MUD 9.0, VIS 43, WL 14. 7/5/81 DRLD TO 8580 FT. TRIP FOR BIT SURVEYS - 3-3/4 DEG AT 8545 FT. AND 8578 FT. MUD 9.0, VIS 39, WL 13. 7/6/81 - DRLD TO 8662 FT., 82 FT. SURVEY 3-3/4 DEG AT 8606 FT. AND 8636 FT. MUD 9, VIS 43, WL 15..

TOMBSTONE STATE-A WELL NO. 1 D 8675. DRLD TO 8675 FT., 13 FT. COOH. LD DYNADRILL. TEST BOP/S. WIH W/BIT. SURVEYS - 3-3/4 DEG AT 8667 FT., 4 DEG AT 8674 FT. MUD 9, VIS 41, WL 14..

TOMBSTONE STATE-A WELL NO. 1 D 8731. DRLD TO 8731 FT., 56 FT. SURVEY - 4 DEG AT 8704 FT. MUD 9.0, VIS 44, WL 14..

TOMBSTONE STATE-A WELL NO. 1 D 8789. DRLD TO 8789 FT., 58 FT. SURVEYS - 3-1/2 DEG AT 8736 FT., 3-3/4 DEG AT 8766 FT. MUD 9, VIS 44, WL 15..

TOMBSTONE STATE-A WELL NO. 1 TD 8837. COOH. DRLD TO 8837 FT., 48 FT. LOST 250 PSI PUMP PRESS. START COOH. SURVEYS - 3-3/4 DEG AT 8797 FT., 4 DEG AT 8828 FT. MUD 9.0, VIS 38, WL 15.6..

TOMBSTONE STATE-A WELL NO. 1 D 8954. 7/11/81 - FIN COOH, FOUND CRACK 6 FT. BELOW TBG JT ON 5TH JT ABOVE HVY WT. HAIRLINE CRACK IN BOX OF TOP TELEDRIFT SUB. PU CORE BBL. WIH, WASHED AND REAMED 90 FT. TO BTM. ~~COOH REC 1 FT. START LD CORE. 7/12/81 FIN LD CORE. WIH W/CORE BBL. COOH REC 3 1/2 FT. PU BIT. WIH. DRLD 33 FT. TO 8873 FT. MUD 9.0, VIS 46, WL 16. 7/13/81 DRLD TO 8954 FT., 81 FT. SURVEYS - 4 DEG AT 8891 FT., 4-3/4 DEG AT 8953 FT. MUD 9.0, VIS 37, WL 15.6..~~

TOMBSTONE STATE-A WELL NO. 1 TD 8988. TRIPPING FOR PRESSURE LOSS. DRLD TO 8988 FT. 34 FT. SURVEY - 5 DEG AT 8985 FT. MUD 9, VIS 35, WL 16..

TOMBSTONE STATE-A WELL NO. 1 TD 9008. COOH. FIN COOH, BIT WASHED OUT. TEST BOPS, OK. WIH, REAMED 60 FT. TO BTM. DRLD TO 9008 FT., 20 FT. LOST 250 PSI PUMP PRESS. START COOH. MUD 9.1, VIS 37, WL 15.8..

TOMBSTONE STATE-A WELL NO. 1 D 9050. DRLG W/DYNADRILL. FIN COOH, FOUND CRACK IN DC 2ND FROM BTM. PU DYNADRILL, WIH, REAMED TIGHT HOLE 8888 FT. TO BTM. DRLD TO 9050 FT. SURVEY - 4 DEG AT 9044 FT. MUD 9.0, VIS 46, WL 15.5..

TOMBSTONE STATE-A WELL NO. 1 D 9096. DRLG W/DYNADRILL. DRLD TO 9057 FT. COOH STRAPPING PIPE. STRAP CORRECTION 9057 FT. TO 9046 FT. WIH W/NEW BIT, REAMED 90 FT. TO BTM. DRLD TO 9096 FT. SURVEYS - 4 DEG AT 9057 FT. AND 9095 FT. MUD 9.0, VIS 43, WL 16..

TOMBSTONE STATE-A WELL NO. 1 D 9224. 7/18/81 - RNG WL SURVEY. DRLD TO 9121 FT., 25 FT. COOH. MAGNAFLUX BHA. LD 1 DC. WIH. SURVEY - 4 DEG AT 9121 FT. MUD 9, VIS 50, WL 16. 7/19/81 - TRIPPING FOR BIT. DRLD TO 9186 FT., 65 FT. DYNADRILL PRESSURED UP. START COOH. SURVEYS - 5 DEG AT 9154 FT., 4 DEG AT 9186 FT. MUD 9, VIS 36, WL 17. 7/20/81 - FIN COOH. LD DYNADRILL. PU BHA AND WIH. DRLD TO 9224 FT., 38 FT. SURVEY - 3-1/2 DEG AT 9224 FT. MUD 9.0, VIS 43, WL 16..

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LEASE TOMBSTONE STATE A WELL NO. 1 SHEET NO. 8
JUL 13 1981

O & G CONS. COMM.

DATE	NATURE OF WORK PERFORMED
1981	
June	
17	TOMBSTONE STATE-A WELL NO. 1 D 7708. DRLD TO 7708 FT., 74 FT. SURVEY - 3 DEG AT 7658. MUD 9.9, VIS 36, WL 11..
18	TOMBSTONE STATE-A WELL NO. 1 TD 7760. COOH. DRLD 52 FT., LOST 150 PSI PUMP PRESS. START COH. SURVEY - 3 DEG AT 7720 FT. MUD 9.9, VIS 35, WL 14.4..
19	TOMBSTONE STATE-A WELL NO. 1 D 7779. FIN COOH, FOUND HOLE WASHED OUT IN BIT. GIH, REAM 60 FT. TO BTM. DRLD TO 7770 FT., LOST 200 PSI PUMP PRESS. COOH, FOUND WASH OUT IN WELD ON BIT. GIH, DRLD TO 7779 FT. SURVEY - 4 DEG AT 7778 FT. MUD 9.1, VIS 36, WL 13.8..
20-22	TOMBSTONE STATE-A WELL NO. 1 D7931. TESTING BOP/S. 6/20/81 - DRLD TO 7834 FT., 55 FT. SURVEY - 4 DEG AT 7809 FT. MUD 9.1, VIS 36, WL 13.5. 6/21/81 - DRLD TO 7892 FT., 58 FT. SURVEYS - 4 DEG AT 7839, 4 DEG AT 7870 FT. MUD 9.9, VIS 35, WL 14.5. 6/22/81 - DRLD TO 7931 FT., 39 FT. COOH. TEST BOP/S SURVEY - 3 3/4 DEG AT 7931 FT. MUD 9.9, VIS 35, WL 15..
23	TOMBSTONE STATE-A WELL NO. 1 D 7998. START GIH, PU KELLY AND BRK CIRC. LOST 200 PSI PUMP PRESS. COOH. CRACK IN 115TH JT ABOVE HVY WT DP. WIH, WASH 40 FT. TO BTM. DRLD TO 7998 FT., 67 FT. SURVEY - 3 3/4 DEG AT 7994 FT. MUD 9.1, VIS 36, WL 14.8..
24	TOMBSTONE STATE-A WELL NO. 1 D 8145. DRLD TO 8145 FT., 147 FT. SURVEYS : 3 3/4 DEG AT 8056 FT., 4 DEG AT 8118 FT. MUD 8.9, VIS 37, WL 16..
25	TOMBSTONE STATE-A WELL NO. 1 D 8180. GIH W/CORE BBL. DRLD TO 8180 FT., 109 FT. CIRC TO CORE, COOH, FOUND 24 TEETH MISSING OFF BIT. PU JUNK BASKET. GIH. WORK ON JUNK. COOH. NO REC. PU CORE BBL. WIH. SURVEY - 4 3/4 DEG AT 8180 FT. MUD 9.0, VIS 35, WL 15.6..
26	TOMBSTONE STATE-A WELL NO. 1 TD 8186. REAMING TIGHT HOLE. FIN GIH W/CORE BBL, CORE 8180-8186 FT. COOH, REC 6 FT. CORE. GIH W/ BIT. HIT BRIDGE AT 7870 FT., STUCK PIPE, WORK, JARS. CAME FREE BELOW. CANNOT COME UP. WORKING AND ROTATING ON TIGHT SPOT MUD 9.0, VIS 35, WL 14.6..
27-29	TOMBSTONE STATE-A WELL NO. 1 D 8306. DRLG. 6/27/81 - WORKED STUCK PIPE AND REAMED. LOST 200 PSI. COOH. REPLACED CRACKED JUT OF DP. WSHD AND REAMED 372 FT. DRLD TO 8193 FT., 7 FT. MUD 9, VIS 38, WL 16. 6/28/81 - DRLD TO 8254 FT., 61 FT. SURVEY 4 3/4 DEG AT 8240 FT. MUD 8.9, VIS 42, WL 15. 6/29/81 DRLD TO 8306 FT., 52 FT. SURVEY 5 DEG AT 8302 FT. MUD 8.9, VIS 42, WL 13.2..
30	TOMBSTONE STATE-A WELL NO. 1 D 8359. DRLD TO 8359 FT., 53 FT. MUD 8.9, VIS 41, WL 13..
July	
1	TOMBSTONE STATE-A WELL NO. 1 D 8372. DRLG. DRLD TO 8365 FT, 6 FT. COOH, INSPECT BHA. CHANGE OUT HWDP. TEST BOP/S. PU AND WIH W/DYNADRILL. DRLD TO 8372 FT., 7 FT. SURVEY - 4 3/4 DEG AT 8365 FT. MUD 9.0, VIS 49, WL 14..
2	TOMBSTONE STATE-A WELL NO. 1 D 8423. DRLD TO 8423 FT., 51 FT. TRIP TO CHG BIT. SURVEY - 5 DEG AT 8416 FT. MUD 9, VIS 37, WL 14..

FORM

716

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JUN 23 1981

O & G CONS. COMM.

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LEASE Tombstone State A WELL NO. 1 SHEET NO. 7

DATE TOTAL
NATURE OF WORK DEPTH
PERFORMED

1981

May 30-
June 1

TOMBSTONE STATE-A WELL NO. 1 D 6763. 5/30/81 - CORED 6521-6522 FT. COOH W/CORE NO. 4. LD CORE BBL. 19 FT-15 FT REC. MAGNAFLUX BHA. WIH, DRLD FROM 6522-6561 FT. START COOH. LOST 125 PSI. SURVEYS - 1-1/2 DEG AT 6522 FT, 1/2 DEG AT 6561 FT. MUD 9.1, VIS 34, WL 16. 5/31/81 - FIN COOH. REPLACED 2 DC.S. WIH, DRLD TO 6663 FT. 102 FT. SURVEY - 1-1/2 DEG AT 6586 FT. MUD 9.1, VIS 34, WL 17. DRLD TO 6763 FT. 100 FT. SURVEYS - 1-3/4 DEG AT 6696 FT, 1-1/2 DEG AT 6738 FT. MUD 9.1, VIS 35, WL 14..

June 2

TOMBSTONE STATE-A WELL NO. 1 D 6841. DRLD TO 6840 FT. COOH, LOST 200 PSI. LD BTM JT HVY WT DP. RESUMED DRLG TO 6841 FT. SURVEYS - 1-1/2 DEG AT 6887 FT, 2 DEG AT 6817 FT. MUD 9.1, VIS 34, WL 14..

3

TOMBSTONE STATE-A WELL NO. 1 D 6961. DRLD TO 6961 FT. 120 FT. SURVEYS - 2 DEG AT 6829 FT, 2-1/4 DEG AT 6923 FT. MUD 9.1, VIS 34, WL 15..

4

TOMBSTONE STATE-A WELL NO. 1 D 7060. DRLD TO 7060 FT. 99 FT. SURVEY- 2-1/2 DEG AT 7035 FT. MUD 9.2, VIS 35, WL 15.5..

5

TOMBSTONE STATE-A WELL NO. 1 D 7136. DRLD TO 7136 FT. 76 FT. SURVEYS- 3 DEG AT 7044 FT, 3-1/2 DEG AT 7107 FT. MUD 9.2, VIS 34, WL 15..

6-8

TOMBSTONE STATE-A WELL NO. 1 D 7266. 6/6/81 - DRLD 50 FT. COOH. TD BOP.S. HYDRIL LEAKING. WIH W/NEW BIT, REAMED 80 FT AND DRLD 15 FT TO 7151 FT. SURVEY - 4 DEG AT 7136 FT. MUD 9.2, VIS 34, WL 16. 6/7/81- DRLD TO 7204 FT, 53 FT. SURVEY - 4 DEG AT 7170 FT. MUD 9.1, VIS 34, WL 16. 6/8/81 - DRLD TO 7266 FT, 62 FT. SURVEY - 3-3/4 DEG AT 7231 FT. MUD 9.2, VIS 35, WL 14..

9

TOMBSTONE STATE-A WELL NO. 1 TD 7318. TRIPPING FOR BIT. DRLD TO 7318 FT, 52 FT. START COOH TO CHG BIT. SURVEY - 3-3/4 DEG AT 7261 FT. MUD 9.1, VIS 33, WL 15.8..

10

TOMBSTONE STATE-A WELL NO. 1 D 7329. FIN-COOH. /REPLACED HYDRIL RUBBER. WIH. WASHED AND REAMED 60 FT. TO BTM.) DRLD TO 7329 FT., 11 FT. SURVEY - 4 DEG AT 7318 FT. MUD 9.1, VIS 34, WL 15..

11

TOMBSTONE STATE-A WELL NO. 1 D 7381. DRLD TO 7381 FT. 52 FT. SURVEYS - 3-1/2 DEG AT 7321 FT., 3-1/4 DEG AT 7353 FT. MUD 9.1, VIS 33, WL 14..

12

TOMBSTONE STATE-A WELL NO. 1 D 7437. DRLD TO 7411 FT. WORKED TITE HOLE. RESUMED DRLG TO 7437 FT, TOTAL 56 FT. SURVEY - 3-1/2 DEG AT 7414 FT. MUD 9.0, VIS 33, WL 15..

13-15

TOMBSTONE STATE-A WELL NO. 1 D 7696. 6/13/81 - DRLD TO 7492 FT 55 FT. SURVEY - 3-1/2 DEG AT 7443 FT. MUD 9.1, VIS 35, WL 14.4. 6/14/81 DRLD TO 7520 FT, 28 FT. MAGNAFLUX BHA. TEST BOP.S. SURVEY - 3-1/4 DEG AT 7507 FT. MUD 9.1, VIS 34, WL 14. 6/15/81 - DRLD TO 7696 FT, 76 FT. SURVEY 3-1/2 DEG AT 7535. MUD 9.0, VIS 35, WL 15..

16

TOMBSTONE STATE-A WELL NO. 1 D7634. DRILLED TO 7634 FT., 38 FT., LOST 200 PSI. COOH TO REPLACE WASHOUT IN DP. WIH. SURVEY - 3 1/2 DEG AT 7597. MUD 9.9, VIS 35, WL 14..

FORM 911

714

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JUN 1 1981

O & G CONS. COMM.

SHEET NO. 6

LEASE Tombstone State A WELL NO. 1

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
1981 May 16-18		TOMBSTONE STATE-A WELL NO. 1 D 5636. 5/16/81 - DRLD TO 5473 FT. CIRC AND COND HOLE. COOH. PU CORE BBL. WIH TO CORE. SURVEY - 2 DEG AT 5453 FT. MUD 8.9, VIS 33, WL 16. 5/17/81 - CORED 6 FT. COOH, FULL RECOVERY. LD CORE BBL. PU BHA, WIH, DRLD TO 5526 FT. SURVEY - 1 DEG AT 5503 FT. MUD 8.9, VIS 33, WL 16.2. 5/18/81 - DRLD TO 5636 FT, 110 FT. SURVEYS - 2 DEG AT 5534 FT, 2-1/2 DEG AT 5575 FT. MUD 8.8, VIS 32, WL 16.6..
19		TOMBSTONE STATE-A WELL NO. 1 D 5715. DRLD TO 5645 FT. TRIP FOR BIT. DRLD TO 5715 FT. SURVEYS - 2 DEG AT 5645 FT, 1-3/4 DEG AT 5667 FT. MUD 8.9, VIS 31, WL 16.2..
20		TOMBSTONE STATE-A WELL NO. 1 TD 5767. TRIP FOR HOLE IN DP. DRLD TO 5731 FT. TRIP TO REPLACE CRACKED DP. WIH, DRLD TO 5767 FT. TRIP TO REPLACE CRACK IN DP. START GIH. SURVEYS - 3 DEG AT 5718 FT, 1-3/4 DEG AT 5729 FT, 1 DEG AT 5749 FT. MUD 8.9, VIS 33, WL 16.6..
21		TOMBSTONE STATE-A WELL NO. 1 D 5851. DRLD TO 5851 FT, 84 FT. TRIP FOR CRACK IN DP. SURVEY - 1-1/2 DEG AT 5718 FT. MUD 8.8, VIS 31, WL 17..
22		TOMBSTONE STATE-A WELL NO. 1 D 5901. DRLD TO 5862 FT. TRIP FOR PUMP PRESS LOSS, FOUND WASH OUT IN BIT. WIH, DRLD TO 5901 FT. SURVEY - 1-1/2 DEG AT 5880 FT. MUD 8.8, VIS 32, WL 17.5..
23-24		TOMBSTONE STATE-A WELL NO. 1 TD 6260. CIRC FOR SAMPLES. 5/23/81 - DRLD TO 6053 FT, 152 FT. SURVEY - 1-3/4 DEG AT 5973 FT. MUD 8.9, VIS 32, WL 18. 5/24/81 - DRLD TO 6061 FT. COOH. PRESS TSTD KELLY AND HYDRIL, LOST 100 PSI. PU CORE BBL AND WIH. CORED FROM 6061-6093 FT. START COOH W/CORE NO. 3. SURVEY - 3 DEG AT 6061 FT. MUD 8.9, VIS 31, WL 19. 5/25/81 - FIN COOH W/CORE NO. 3, REC 31 FT. LD CORE. WIH, REAMED 60 FT TO BTM. RESUMED DRLG TO 6157 FT. SURVEY - 2 DEG AT 6128 FT. MUD 8.9, VIS 31, WL 19. 5/26/81 - DRLD TO 6260 FT, 103 FT. CIRC FOR SAMPLES FROM DRLG BREAK. SURVEY - 2 DEG AT 6220 FT. MUD 8.9, VIS 31, WL 21..
27		TOMBSTONE STATE-A WELL NO. 1 D 6376. DRLD TO 6376 FT, 116 FT. SURVEY - 2 DEG AT 6344 FT. MUD 9, VIS 34, WL 18..
28		TOMBSTONE STATE-A WELL NO. 1 D 6485. DRLD TO 6485 FT, 109 FT. SURVEY - 1 DEG AT 6435 FT. MUD 9, VIS 34, WL 16..
29		TOMBSTONE STATE-A WELL NO. 1 TD 6521. CORING. DRLD TO 6503 FT, 18 FT. CIRC. COOH. TSTD BOP, S, OK. WIH W/CORE BBL TO CUT CORE NO. 4. CUT 18 FT. SURVEY - 1 DEG AT 6503 FT. MUD 9.1, VIS 35, WL 15..

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MAY 18 1981

LEASE Tombstone State-A WELL NO. 1 O & G CONS. COMM. SHEET NO. 5

DATE	NATURE OF WORK PERFORMED	TOTAL DEPTH
1981 May 2-4	TOMBSTONE STATE-A WELL NO. 1 D 4440. 5/2/81 - FINISHED COOH, PU 5-3/4 IN DIAMOND RIT AND COIL PARALLEL. WIH, COOH 14 IN IN 5-1/2 HRS. COOH. NO RECOVERY. PU PRA AND RIT. FIB, DRLD 37 FT IN 6 HRS. SURVEYS - 1-3/4 DEG AT 4050 FT, 1 DEG AT 4055 FT. MUD 8.8, VIS 31, WL 15. 5/3/81 - DRLD TO 4262 FT, 175 FT IN 23 HRS. SURVEYS - 1/2 DEG AT 4118 FT, 1 DEG AT 4149, 3/4 DEG AT 4129 FT AND 1 DEG AT 4221 FT AND 4240 FT. MUD 8.9, VIS 33, WL 14. 5/4/81 - DRLD TO 4440 FT, 178 FT IN 23 HRS. SURVEYS - 1 DEG AT 4251 FT, 4302 FT, 4360 FT, 4373 FT AND 4424 FT. MUD 9.0, VIS 33, WL 15..	
5	TOMBSTONE STATE-A WELL NO. 1 D 4606. DRLD TO 4606 FT, 166 FT. SURVEYS - 1-1/2 DEG AT 4455 FT, 1-1/2 DEG AT 44428 FT, DEG AT 44579 FT. MUD 8.9, VIS 31, WL 16..	
6	TOMBSTONE STATE-A WELL NO. 1 D 4733. DRLD TO 4733 FT, 127 FT. SURVEYS - 1-1/4 DEG AT 4606 FT, 2 DEG AT 4662 FT, 2-1/2 DEG AT 4702. MUD 8.9, VIS 31, WL 16..	
7	TOMBSTONE STATE-A WELL NO. 1 D 4889. DRLD TO 4889 FT, 156 FT. SURVEYS - 1-1/2 DEG AT 4713 FT, 2-1/2 DEG AT 4723 FT, 4763 FT, 4794 FT AND 4826 FT, 2 DEG AT 4837 FT, 2-1/2 DEG AT 4892 FT. MUD 8.9, VIS 31, WL 17..	
8	TOMBSTONE STATE-A WELL NO. 1 D 4976. DRLD TO 4976 FT, 87 FT. LOST 60 BBLs AT 4950 FT. SURVEYS - 2-1/2 DEG AT 4888 FT, 3 DEG AT 4919 FT, 2-1/2 DEG AT 4931 FT, 3 DEG AT 4962 FT. MUD 8.9, VIS 31, WL 17..	
9-11	TOMBSTONE STATE-A WELL NO. 1 D 5205. 5/9/81 - DRLD TO 5010 FT, TRIP FOR BIT. TSTD BOP, S. WIH, DRLD TO 5017 FT, TRIP FOR HOLE IN DP, FOUND 1 JT DP 8 JTS ABOVE WT PIPE WITH HOLE IN BOTH ENDS. WIH, DRLD TO 5028 FT. SURVEYS - 3 DEG AT 4980 FT, 2-1/2 DEG AT 5010 FT. MUD 8.9, VIS 31, WL 18. 5/10/81 - DRLD TO 5109 FT, 81 FT. SURVEYS - 2 DEG AT 5020 FT, 2 DEG AT 5083 FT. MUD 8.9, VIS 34, WL 16.4. 5/11/81 - DRLD TO 5205 FT, 96 FT. TRIP FOR NEW BIT. LD 1 JT HVY WT DP. SURVEYS - 1-3/4 DEG AT 5153 FT, 1-1/2 DEG AT 5164 FT, 1-1/2 DEG AT 5195 FT. MUD 8.9, VIS 32, WL 16.2..	
12	TOMBSTONE STATE-A WELL NO. 1 D 5272. DRLD TO 5248 FT, HAD PRESS LOSS, COOH. FOUND CRACKED BOX ON NO. 5 DC. WIH, DRLD TO 5272 FT. SURVEYS - 2-1/4 DEG AT 5205 FT, 2-1/4 DEG AT 5257 FT. MUD 8.9, VIS 32, WL 16.2..	
13	TOMBSTONE STATE-A WELL NO. 1 D 5356. DRLD TO 5350 FT. COOH FOR PRESS LOSS. TELEDRIFT SUB CRACKED. PU IBS, WIH, DRLD TO 5356 FT. SURVEY - 2-1/4 DEG AT 5299 FT. MUD 8.9, VIS 33, WL 16.5..	
14	TOMBSTONE STATE-A WELL NO. 1 TD 5405. MAGNAFLUXING DC, S. DRLD TO 5405 FT, 49 FT. COOH. SURVEYS - 3 DEG AT 5354 FT, 2-1/4 DEG AT 5405 FT. MUD 8.8, VIS 31, WL 16..	
15	TOMBSTONE STATE-A WELL NO. 1 D 5452. FIN PRESS TSTG BOP, S. WIH AND DRLD TO 5452 FT, 47 FT. SURVEYS - 2 DEG AT 5411 FT, 1-1/2 DEG AT 5442 FT. MUD 9.0, VIS 32, WL 16.6..	

DAILY REPORT DETAILED

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MAY 4 1981

LEASE TOMBSTONE STATE -A WELL NO. 1 O & G CHENE.NCOMM. 4

DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
1981		
April		
17-20		TOMBSTONE STATE-A WELL NO. 1 D 2139. 4/17/81 - RUN 1 IN. PUMP 182 SX CLASS G TO BRING CMT TO SURF. WOC. CUT OFF AND WELD ON HEAD. 4/18/81 - WELD ON HEAD AND NO. START NO BOP. MUD 8.9, VIS 37, WL 14. 4/19/81 - FIN NO. PRESS TSTD BOP'S TO 2000 PSI. HYDRIL TO 1000 PSI. PU PHA, DROPPED TELEDRIFT IH. WIH W/OS. COOH, NO RFC. WIH W/OS. COOH, NO REC. NO SMALLER GRAPPLES. MUD 8.9, VIS 37, WL 15. 4/20/81 - WIH W/OS. WORK OVER FISH. COOH. LD FISH AND FISHING TOOLS. MAKE UP PHA AND GIH. DRL CMT AND SHOE. DRLD TO 2121 FT. COOH, PU MAGNET AND JUNK SUR. GIH, WORK ON JUNK. COOH. LD MAGNET, REC PIN FROM HOLE OPENER. PU BIT, WIH, DRLD TO 2139 FT. MUD 8.8, VIS 38, WL 18..
21		TOMBSTONE STATE-A WELL NO. 1 D 2330. DRLD TO 2330 FT. 191 FT. SURVEYS - 1/2 DEG AT 2188 FT, 1/2 DEG AT 2251 FT, 1/2 DEG AT 2318 FT. MUD 8.7, VIS 32, WL 26..
22		TOMBSTONE STATE-A WELL NO. 1 D 2487. DRLD TO 2344 FT. LOST 250 REELS MUD. MIX LCM PILL. DRLD TO 2487 FT. SURVEYS - 1/2 DEG AT 2374 FT, 1/2 DEG AT 2434 FT. MUD 8.6, VIS 28, WL 30..
23		TOMBSTONE STATE-A WELL NO. 1 D 2658. DRLD TO 2658 FT. 171 FT. SURVEYS - 1/2 DEG AT 2526 FT, 1/2 DEG AT 2556 FT, 1/2 DEG AT 2587 FT, 1/2 DEG AT 2617 FT, 1/2 DEG AT 2629 FT. MUD 8.6, VIS 27, WL 36..
24		TOMBSTONE STATE-A WELL NO. 1 D 2786. TRIP FOR HOLE IN DP. DRLD TO 2784 FT. LOST 150 LB PUMP PRESS COOH, CHECK BHA AND ALL TOOL JTS. NO LEAK. WIH, DRLD TO 2786 FT. LOST 800 LB PUMP PRESS. COOH, FOUND SPLIT IN 3RD JOINT DP 4 FT ABOVE PIN. SURVEYS - 1/2 DEG AT 2680 FT, 1/2 DEG AT 2741 FT. MUD 8.6, VIS 27, WL 50..
25-27		TOMBSTONE STATE-A WELL NO. 1 D 3310. 4/25/81 - DRLD TO 2984 FT, 198 FT. SURVEYS - 1/2 DEG AT 2830 FT, 1/2 DEG AT 2892 FT, 1/2 DEG AT 2960 FT. MUD 8.6, VIS 27, WL 75. 4/26/81 - DRLD TO 3059 FT, LOST 100 LB PUMP PRESS. COOH, FOUND CRACKED BOX ON 2ND FC. WIH, DRLD TO 3082 FT. LOST 200 LB PUMP PRESS. COOH, FOUND CRACK IN 12TH JT DP 34 IN BELOW BOX. WIH, DRLD TO 3115 FT. SURVEYS - 1/2 DEG AT 3046 FT, 1 DEG AT 3090 FT. MUD 8.6, VIS 27, WL 85. 4/27/81 - DRLD TO 3310 FT, 195 FT. SURVEYS - 1/2 DEG AT 3177 FT, 1/2 DEG AT 3232 FT, 1/2 DEG AT 3264 FT. MUD 8.6, VIS 27..
28		TOMBSTONE STATE-A WELL NO. 1 D 3498. DRLD TO 3498 FT, 188 FT. SURVEY 1/2 DEG AT 3324 FT, 3356 FT, 3387 FT, 3418 FT AND 3479 FT, 1 DEG AT 3428 FT. MUD 8.6, VIS 47..
29		TOMBSTONE STATE-A WELL NO. 1 D 3613. TRIPPING. DRLD TO 3583 FT. TRIP FOR BIT. MAGNAFLUX BHA. DRLD TO 3613 FT. LOST 200 LB PUMP PRESS. COOH, FOUND CRACKED JT DP IN SLIP AREA 5TH JT ABOVE DC'S. START GIH. SURVEYS - 1/2 DEG AT 3509 FT AND 3571 FT, 1 DEG AT 3540 FT, 3/4 DEG AT 3583 FT. MUD 8.6, VIS 27..
30		TOMBSTONE STATE-A WELL NO. 1 D 3848. WIH. DRLD TO 3848 FT, 235 FT. LOST 200 LB PUMP PRESS. COOH. REPLED 9 JT DP W/WT WT DP. WIH, LOST 100 REEL AND AT 3669 FT. SURVEYS - 1 DEG AT 3636 FT, 1/2 DEG AT 3686 FT AND 3748 FT, 3/4 DEG AT 3759 FT, 1/2 DEG AT 3810 FT AND 3840 FT. MUD 8.6, VIS 27..
11/4		TOMBSTONE STATE-A WELL NO. 1 D 4050. COOH. DRLD TO 4050 FT, 202 FT. MUD 8.6, VIS 38, WL 14..

Form

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LEASE TOMBSTONE STATE - A

WELL NO. 1

1

SHEET NO. 3

APR 20 1981

O & G CONS. COMM.

1981 DATE TOTAL DEPTH
NATURE OF WORK PERFORMED

April

TOMBSTONE STATE-A WELL NO. 1 TD 2117. REAMING 26 IN HOLE. REAMED TO 1047 FT. TRIP FOR BIT. REAMED TO 1172 FT. MUD 8.5, VIS 28..

1

TOMBSTONE STATE-A WELL NO. 1 TD 2117. REAMING 26 IN HOLE. REAMED TO 1347 FT. 175 FT. MUD 8.6, VIS 27..

2

3

TOMBSTONE STATE-A WELL NO. 1 TD 2117. CIRC WO FISHING TOOLS. REAMED 26 IN HOLE TO 1449 FT. COOH. LEFT ONE HO CUTTER IN HOLE. PU 17-1/2 IN BIT. WIH TO 1507 FT. TAG FISH. CIRC WO FISHING TOOLS. MUD 8.6, VIS 27..

4-6

TOMBSTONE STATE-A WELL NO. 1 TD 2117. REAMING 26 IN HOLE AT 1527. 4/4/81 - WO FISHING TOOLS. 4/5/81 - LD FISHING TLS. RAN JUNK BASKET. COOH. NO RECOVERY. DROPPED 20 FT - 3/8 IN CHAIN IH WHILE RIGGING DN TOOLS. RAN MAGNET, REC 2 FT OF CHAIN, RERAN MAGNET, REC 18 FT OF CHAIN. RAN JUNK BASKET, REC CUTTER, LEFT IH CUTTER PIN. LD FISHING TOOLS 4/6/81 - PU BHA AND 26 IN HOLE OPENER, WASHED TO BHM AND STARTED REAMING AT 1459 FT. REAMED TO 1527 FT. MUD 8.6, VIS 29..

7

TOMBSTONE STATE-A WELL NO. 1 TD 2117. REAMED 26 IN HOLE 15 FT TO 1542 FT. MUD 8.6, VIS 29, WL 45..

8

TOMBSTONE STATE-A WELL NO. 1 TD 2117. REAMING 26 IN HOLE AT 1544 FT. COOH TO DRESS HOLE OPENER. WIH. COND MUD. COOH. RAN MAGNET, NO RECOVERY. FOUND SHOCK SUB ROTATING. WIH W/HOLE OPENER. MUD 8.6, VIS 35, WL 15..

9

TOMBSTONE STATE-A WELL NO. 1 TD 2117. TRIPPING FOR BIT. COOH. FOUND SHOCK SUB ROTATING. WIH. DELD TO 1647 FT. COOH FOR BIT CHG. MUD 8.9, VIS 38, WL 11.8..

10

TOMBSTONE STATE-A WELL NO. 1 TD 2117. RMG 26 IN HOLE. FIN GIH AND REAMED TO 1785 FT. MUD 9.1, VIS 38, WL 12.8..

11-13

TOMBSTONE STATE-A WELL NO. 1 TD 2117. RMG 26 IN HOLE. 4/11/81 - REAMED TO 1876 FT. 91 FT. MUD 9.1, VIS 38, WL 12.6. 4/12/81 - REAMED TO 1926 FT. 50 FT. MUD 9.2, VIS 38, WL 12.5 4/13/81 - REAMED TO 2022 FT. 96 FT. MUD 9.1, VIS 35, WL 13.2..

14

TOMBSTONE STATE-A WELL NO. 1 TD 2117. PUMPING DIACEL D SOZ. DELD TO 12078 FT. LOST 400 BBL MUD. PUMP LCM PILL. DELD TO 2097 FT. LOST CIRC. PUMP DIACEL D SOZ. MUD 8.8, VIS 32, WL 16..

15

TOMBSTONE STATE-A WELL NO. 1 TD 2116. RUNNING 20 IN CSG. REAMED 26 IN HOLE TO 2116 FT. CIRC AND COND HOLE. SPOT LCM PILL. COOH. RU TO RUN CSG. START RMG 20 IN CSG. MUD 8.9, VIS 37, WL 12.8..

16

TOMBSTONE STATE-A WELL NO. 1 TD 2116. FIN RMG 20 IN CSG /50 JTS/ SET AT 2116 FT. WIH W/DP. RU HOWCO. CIRC HOLE. MIXED AND PMPD 250 SX SPERALITE CMT. SEAL WASHED OUT ON DP STINGER. CIRC OUT CMT OUTSIDE CSG. CIRC CMT OUT DP/CSG ANNULUS. COOH W/DP. CMTD CSG CONVENTIONALLY W/1500 GAL FLOCHEK, 20 BW, FOLLOWED BY 460 SX SPERALITE CMT W/50 LB/SX SPERALITE, 4 PERCENT GEL, 5 PERCENT LIME, 1 PERCENT CFR-2, 1/2 PERCENT HALAD 22-A, FOLLOWED BY 590 SX CLASS G. DISPLD W/3981 CU FT MUD. BHPD PLUS W/500 PSI. LOST ALL RETURNS ON LAST 10 BRLS. PREP TO RUN 1 IN OUTSIDE CSG. MUD 8.9, VIS 35, WL 13.6..

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LEASE TOMBSTONE STATE-A Well #1 WELL NO. 1 SHEET NO. 21981 DATE
NATURE OF WORK PERFORMED TOTAL
DEPTH

Mar. 13

TOMBSTONE STATE-A WELL NO. 1 D 1266. DRLD TO 1172 FT. MIX AND PUMP LCM PILL. TRIP FOR HOLE IN DP. DRLD TO 1215 FT. MIX AND PUMP LCM PILL. DRLD TO 1266 FT. SURVEYS - 3/4 DEG AT 1066 FT, 1/2 DEG AT 1128 FT, 3/4 DEG AT 1188 FT. MUD 8.6, VIS 26..

14-16

TOMBSTONE STATE-A WELL NO. 1 D 1848. 3/14/81 - DRLD TO 1475 FT, 209 FT. START COH FOR NEW BIT. SURVEYS - 3/4 DEG AT 1251 FT, 3/4 DEG AT 1313 FT, 1/2 DEG AT 1404 FT, 3/4 DEG AT 1430 FT. MUD 8.5, VIS 27, WL 75. 3/15/81 - FIN TRIP FOR NEW BIT AND DRLD TO 1686 FT, 211 FT. SURVEYS - 1 DEG AT 1494 FT, 3/4 DEG AT 1577 FT, 1 DEG AT 1617 FT. MUD 8.5, VIS 27, WL 70. 3/16/81 - DRLD TO 1848 FT, 162 FT. SURVEYS - 3/4 DEG AT 1678 FT, 1 DEG AT 1740 FT, 1 DEG AT 1800 FT. LOST 50 BBL MUD AT 1775 FT. MUD 8.6, VIS 28, WL 100..

17

TOMBSTONE STATE-A WELL NO. 1 TD 1982. GIH. DRLD TO 1982 FT, 134 FT. LOST PUMP PRESS. COOH. TWISTED PIN OFF DC. PU OS, BUMPER SUB AND JARS AND START IH. SURVEYS - 3/4 DEG AT 1866 FT, 1 DEG AT 1921 FT. MUD 8.6, VIS 27, WL 100..

18

TOMBSTONE STATE-A WELL NO. 1 D 2037. PU OS, JARS AND BUMPER SUB. WIH, PU FISH. COOH W/FISH. LD FISH AND TOOLS. WIH W/BIT. DRLD TO 2037 FT, 55 FT. SURVEY - 3/4 DEG AT 1983 FT. MUD 8.5, VIS 28, WL 100..

19

TOMBSTONE STATE-A WELL NO. 1 TD 2118. LOGGING. DRLD TO 2118 FT. SURVEYS - 3/4 DEG AT 2045 FT, 1 DEG AT 2118 FT. CIRC HOLE. MADE 10 STD SHORT TRIP, HAD 20 FT FILL. CIRC AND PUMP GEL SWEEP. COOH. RU SCHL., RUN DIL-SONIC. MUD 8.5, VIS 29, WL 75..

20

TOMBSTONE STATE-A WELL NO. 1 TD 2118. LOGGING. 10-1/2 HRS DOWNTIME WAITING ON REPLACEMENT LOGGING EQUIPMENT. MUD 8.4, VIS 27, WL 100..

21-23

TOMBSTONE STATE-A WELL NO. 1 TD 2118. REAMING. 3/21/81 - FIN RAG LOGS. RD SCHL. PU BHA. REAMED 12-1/4 IN TO 17-1/2 IN FROM 70 FT TO 1098 FT. MUD 8.4, VIS 27. 3/22/81 - REAMED TO 1507 FT. TRIP FOR NEW BIT. REAMED TO 1804 FT. MUD 8.5, VIS 28, WL 100. 3/23/81 - REAMED 12-1/4 IN TO 17-1/2 TO 2006 FT. MUD 8.5, VIS 28..

24

TOMBSTONE STATE-A WELL NO. 1 TD 2117. FIN OPENING 17-1/2 IN HOLE TO 2117 FT. PU 26 IN HOLE OPENER. NOW OPENING 17-1/2 IN HOLE TO 26 IN AT 75 FT. MUD 8.5, VIS 28..

25

TOMBSTONE STATE-A WELL NO. 1 TD 2117. REAMING 26 IN HOLE. REAMED 17-1/2 IN TO 26 IN FROM 75 FT TO 241 FT. MUD 8.5, VIS 27..

26

TOMBSTONE STATE-A WELL NO. 1 TD 2117. REAMING 26 IN HOLE. REAMED TO 302 FT. TRIP FOR BIT. REAMED TO 376 FT. MUD 8.5, VIS 27..

27

TOMBSTONE STATE-A WELL NO. 1 TD 2117. REAMED 26 IN HOLE TO 477 FT. MUD 8.5, VIS 28..

28-30

TOMBSTONE STATE-A WELL NO. 1 TD 2117. REAMING 26 IN HOLE. 3/28/81 - REAMED HOLE TO 509 FT. COOH. MAGNAFLUX BHA. WIH W/NEW REAMER, REAMED TO 545 FT. MUD 8.5, VIS 28. 3/29/81 - REAMED TO 675 FT. MUD 8.5, VIS 28. 3/30/81 - REAMED TO 795 FT. MUD 8.5, VIS 28..

31

TOMBSTONE STATE-A WELL NO. 1 TD 2117. REAMED HOLE TO 986 FT. MUD 8.6, VIS 25..

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LEASE TOMBSTONE STATE-A Well #1 WELL NO. 1 SHEET NO. 2

1981 DATE TOTAL
NATURE OF WORK DEPTH
PERFORMED

Mar. 13 TOMBSTONE STATE-A WELL NO. 1 D 1266. DRLD TO 1172 FT. MIX AND PUMP LCM PILL. TRIP FOR HOLE IN DP. DRLD TO 1215 FT. MIX AND PUMP LCM PILL. DRLD TO 1266 FT. SURVEYS - 3/4 DEG AT 1066 FT, 1/2 DEG AT 1128 FT, 3/4 DEG AT 1188 FT. MUD 8.6, VIS 26..

14-16 TOMBSTONE STATE-A WELL NO. 1 D 1848. 3/14/81 - DRLD TO 1475 FT, 209 FT. START COH FOR NEW BIT. SURVEYS - 3/4 DEG AT 1251 FT, 3/4 DEG AT 1313 FT, 1/2 DEG AT 1404 FT, 3/4 DEG AT 1430 FT. MUD 8.5, VIS 27, WL 75. 3/15/81 - FIN TRIP FOR NEW BIT AND DRLD TO 1686 FT, 211 FT. SURVEYS - 1 DEG AT 1494 FT, 3/4 DEG AT 1577 FT, 1 DEG AT 1617 FT. MUD 8.5, VIS 27, WL 70. 3/16/81 - DRLD TO 1848 FT, 162 FT. SURVEYS - 3/4 DEG AT 1678 FT, 1 DEG AT 1740 FT, 1 DEG AT 1800 FT. LOST 50 BBL MUD AT 1775 FT. MUD 8.6, VIS 28, WL 100..

17 TOMBSTONE STATE-A WELL NO. 1 TD 1982. GIH. DRLD TO 1982 FT, 134 FT. LOST PUMP PRESS. COOH. TWISTED PIN OFF DC. PU OS, BUMPER SUB AND JARS AND START IH. SURVEYS - 3/4 DEG AT 1866 FT, 1 DEG AT 1921 FT. MUD 8.6, VIS 27, WL 100..

18 TOMBSTONE STATE-A WELL NO. 1 D 2037. PU OS, JARS AND BUMPER SUB. WIH, PU FISH. COOH W/FISH. LD FISH AND TOOLS. WIH W/BIT. DRLD TO 2037 FT, 55 FT. SURVEY - 3/4 DEG AT 1983 FT. MUD 8.5, VIS 28, WL 100..

19 TOMBSTONE STATE-A WELL NO. 1 TD 2118. LOGGING. DRLD TO 2118 FT. SURVEYS - 3/4 DEG AT 2045 FT, 1 DEG AT 2118 FT. CIRC HOLE. MADE 10 STD SHORT TRIP, HAD 20 FT FILL. CIRC AND PUMP GFL SWEEP. COOH. RU SCHL., RUN DIL-SONIC. MUD 8.5, VIS 29, WL 75..

20 TOMBSTONE STATE-A WELL NO. 1 TD 2118. LOGGING. 10-1/2 HRS DOWNTIME WAITING ON REPLACEMENT LOGGING EQUIPMENT. MUD 8.4, VIS 27, WL 100..

21-23 TOMBSTONE STATE-A WELL NO. 1 TD 2118. REAMING. 3/21/81 - FIN RAG LOGS. RD SCHL. PU BHA. REAMED 12-1/4 IN TO 17-1/2 IN FROM 70 FT TO 1098 FT. MUD 8.4, VIS 27. 3/22/81 - REAMED TO 1507 FT. TRIP FOR NEW BIT, REAMED TO 1804 FT. MUD 8.5, VIS 28, WL 100. 3/23/81 - REAMED 12-1/4 IN TO 17-1/2 TO 2006 FT. MUD 8.5, VIS 28..

24 TOMBSTONE STATE-A WELL NO. 1 TD 2117. FIN OPENING 17-1/2 IN HOLE TO 2117 FT. PU 26 IN HOLE OPENER. NOW OPENING 17-1/2 IN HOLE TO 26 IN AT 75 FT. MUD 8.5, VIS 28..

25 TOMBSTONE STATE-A WELL NO. 1 TD 2117. REAMING 26 IN HOLE. REAMED 17-1/2 IN TO 26 IN FROM 75 FT TO 241 FT. MUD 8.5, VIS 27..

26 TOMBSTONE STATE-A WELL NO. 1 TD 2117. REAMING 26 IN HOLE. REAMED TO 302 FT. TRIP FOR BIT. REAMED TO 376 FT. MUD 8.5, VIS 27..

27 TOMBSTONE STATE-A WELL NO. 1 TD 2117. REAMED 26 IN HOLE TO 477 FT. MUD 8.5, VIS 28..

28-30 TOMBSTONE STATE-A WELL NO. 1 TD 2117. REAMING 26 IN HOLE. 3/28/81 - REAMED HOLE TO 509 FT. COOH. MAGNAFLUX BHA. WIH W/NEW REAMER, REAMED TO 545 FT. MUD 8.5, VIS 28. 3/29/81 - REAMED TO 675 FT. MUD 8.5, VIS 28. 3/30-81 - REAMED TO 795 FT. MUD 8.5, VIS 28..

31 TOMBSTONE STATE-A WELL NO. 1 TD 2117. REAMED HOLE TO 986 FT. MUD 8.6, VIS 25..

Form 911

7116

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SHEET NO. 1

LEASE TOMBSTONE STATE-A Well #1 WELL NO. 1

1981	DATE	TOTAL DEPTH	NATURE OF WORK PERFORMED
Feb	23		TOMBSTONE STATE-A WELL NO. 1 INITIAL REPORT. 2/23/81 - MI AND RURT. LOCATION COMPLETE. CRANE TO BEGIN UNLOADING TRUCKS WITH RIG EQUIPMENT TODAY. RAT HOLE COMPLETE. WATER WELL DRILLING AT 580 FT. AFE P-Y011 ISSUED TO DRILL AND COMPLETE 20,000 FT PALEOZOIC OIL WELL. LOCATION - 600 FT FWL AND 850 FT FSL, SW SW, SEC. 14-T205-R23E, COCHISE CO., ARIZONA. ELEV. 4726.30 FT GR. SUB AREA CODE 20. LOCATION STAKED 12/28/80 BY CLARENCE S. WILCOX, CIVIL ENGINEER. PARKER DRILLING, RIG NO. 166, CONTRACTOR. API NUMBER 02-003-20005..
	24		TOMBSTONE STATE-A WELL NO. LOCATION 100 PERCENT COMPLETE. WATER WELL DRLG AT 655 FT. FIRST LOAD OF RIG EQUIPMENT ON LOCATION. PREPARING TO RIG UP..
	25		TOMBSTONE STATE-A WELL NO. 1 MI AND RURT. WATER WELL DRILLING AT 693 FT..
	26		TOMBSTONE STATE-A WELL NO. 1 MI AND RURT. WATER WELL AT 760 FT. PREP TO LOG WELL. ELEVEN TRUCK LOADS OF RIG EQUIPMENT ARRIVED YESTERDAY..
	27		TOMBSTONE STATE-A WELL NO. 1 MI AND RURT. WATER WELL AT 797 FT. WATER WELL LOGGED. PREP TO REAM TO 17-1/2 IN..
	28		TOMBSTONE STATE-A WELL NO. 1 2/28/81 THRU 3/2/81 - RURT. REAMING WTR WELL TO 17-1/2 IN..
Mar. 1-2	3		TOMBSTONE STATE-A WELL NO. 1 MI AND RURT. SHOULD RAISE DERRICK THIS PM. WTR WELL RMG AT 200 FT..
	4		TOMBSTONE STATE-A WELL NO. 1 RURT. RAISED DERRICK YESTERDAY. WATER WELL REAMING AT 265 FT..
	5		TOMBSTONE STATE-A WELL NO. 1 RURT. HAULING WTR UNTIL WTR WELL COMPLETE. WTR WELL RMG AT 330 FT..
	6		TOMBSTONE STATE-A WELL NO. 1 RURT. PROBABLY BREAK TOWER TONIGHT AND SPUD TOMORROW. WTR WELL RMG AT 370 FT..
7-9			TOMBSTONE STATE-A WELL NO. 1 D 312. 3/7/81 - RURT. BROKE TOWER YESTERDAY PM. WTR WELL RMG AT 400 FT. 1000 BW HAULED. 3/8/81 - RURT. WTR WELL AT 482 FT. 3/9/81 - FIN RURT. SPUDDED 12-1/4 IN SURF HOLE AT 6/30 AM, 3/8/81 AND DRLD TO 312 FT. SURVEYS - 1/4 DEG AT 72 FT, 1/4 DEG AT 110 FT, 1/4 DEG AT 141 FT, 3/4 DEG AT 200 FT, 1/2 DEG AT 230 FT, 1/4 DEG AT 259 FT, 1/2 DEG AT 292 FT. MUD 8.4, VIS 27. DRLG W/WTR..
10			TOMBSTONE STATE-A WELL NO. 1 D 580. DRLD TO 437 FT. TRIP FOR BIT. RESUMED DRLG TO 580 FT. SURVEYS - 1/2 DEG AT 354 FT, 3/4 DEG AT 417 FT, 1/4 DEG AT 480 FT, 3/4 DEG AT 541 FT. DRLG W/WTR..
11			TOMBSTONE STATE-A WELL NO. 1 D 778. DRLD TO 707 FT. LOST 300 PSI PP. COOH. COULD FIND NO LEAK. PU NEW BIT. TIH, LOW PP. CHECKED PUMPS. OK. COOH. FOUND CRACK IN BTM JT DP 2 FT ABOVE PIN. REPLACED JT. TIH, RESUMED DRLG TO 778 FT. SURVEYS - 3/4 DEG AT 605 FT, 3/4 DEG AT 690 FT. GRD ELEV. 4726 FT, M&B ELEV. 4759 FT. MUD 8.6, VIS 27..
12			TOMBSTONE STATE-A WELL NO. 1 D 1023. DRLD TO 1010 FT, LOST 150 PPLS MUD. MIXED LCM, DRLD TO 1023 FT. SURVEYS - 3/4 DEG AT 758 FT, 3/4 DEG AT 942 FT. MUD 8.6, VIS 26..

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL ☒

RE-ENTER OLD WELL ☐

Phillips Petroleum Company

NAME OF COMPANY OR OPERATOR

P.O. Box 2920

Casper

Wyoming 82602

Address

City

State

Parker Drilling Company

Drilling Contractor

Denver National Bank Bldg., Suite 1620, Denver, Colorado 80202

Address

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor	Well number	Elevation (ground)
State Lease #51662 N&L	1	4726.30
Nearest distance from proposed location to property or lease line:	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease:	
600 feet	None on this Lease	
Number of acres in lease:	Number of wells on lease, including this well, completed in or drilling to this reservoir:	
480	1	
If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address
	NA	
Well location (give footage from section lines)	Section—township—range or block and survey	Dedication (Comply with Rule 105)
600' from W. line, 850' from S. line	14-20S-23E G&SRB&M	80 acres 15/208 SW/4
Field and reservoir (if wildcat, so state)	County	
Wildcat	Cochise	
Distance, in miles, and direction from nearest town or post office		
5 miles south Tombstone		
Proposed depth:	Rotary or cable tools	Approx. date work will start
20,000'	Rotary	January 12, 1981
Bond Status	Organization Report	Filing Fee of \$25.00
on file	On file <input checked="" type="checkbox"/> Or attached	Attached <input checked="" type="checkbox"/>
Amount	\$25,000	

Remarks:

Well Information Confidential

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Operations Superintendent of the

Phillips Petroleum Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

- 2 - Arizona O&G CC
- 1 - Bartlesville Prod.
- 1 - T. J. Jobin, Denver
- 1 - File

Signature D. J. Fisher

Date January 8, 1981

Permit Number: 716

Approval Date: 1-9-81

Approved By:

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

Form No. 3

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Application to Drill or Re-enter
File Two Copies

- Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- All distances shown on the plat must be from the outer boundaries of the Section.
- Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES _____ NO X
- If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES X NO ____ If answer is "yes," Type of Consolidation joint venture
- If the answer to question four is "no," list all the owners and their respective interests below:

Owner	Texoma Producing Company	Land Description	1/3 working interest
	Anschutz Corporation		1/3 working interest

CERTIFICATION

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Name D.J. Fisher

Position Operations Superintendent

Company Phillips Petroleum Co.

Date 1/8/81

I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Plat Attached

Date Surveyed _____

Registered Professional Engineer and/or Land Surveyor _____

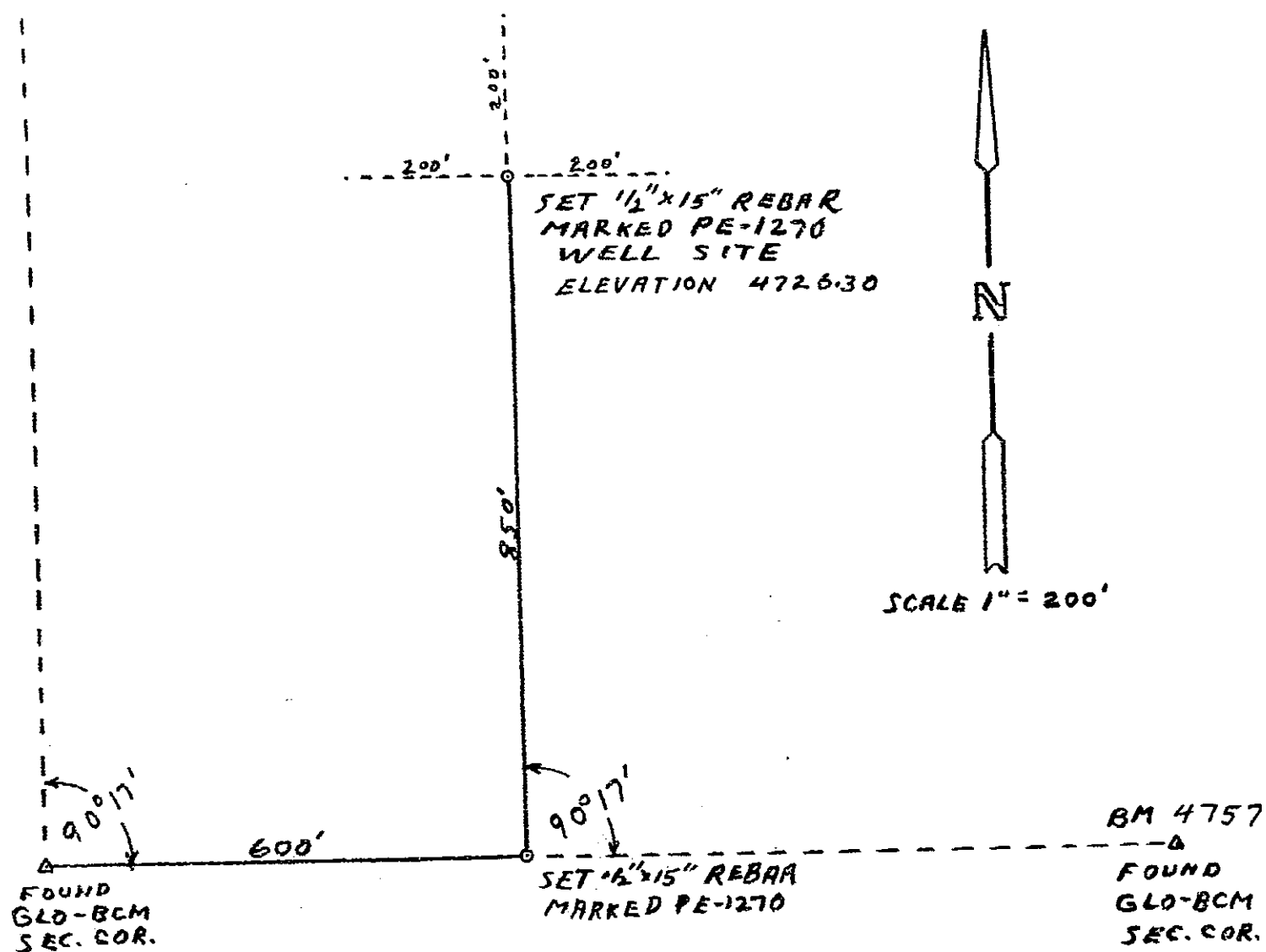
Certificate No. _____

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top Surf	Bottom	Cementing Depths	Sacks Cement
30"	109#	PEEW	Surf	200'	0 - 200'	As Required
20"	133#	K-55 ST&C	Surf	1200'	0 - 1200'	As Required
13-3/8-13-1/2	88.2	SS-95 BUTT	Surf	10,000'	5 - 10,000'	As Required
9-5/8-9-7/8	62.8	L-80-95	Surf	15,000'	10 - 15,000'	As Required
7"	38	SS-95-105 LT&C	Surf	20,000'	15 - 20,000'	As Required

NOTE: SET STAKES 200 FEET
FROM WELL SITE IN
CARDINAL DIRECTIONS.

FOUND
GLO-BCM
1/4 COR.



WELL SITE LOCATED IN SW 1/4 of SW 1/4
SEC. 14, T-20-S, R-23-E, G4SRB4M, COCHISE
COUNTY, ARIZONA.

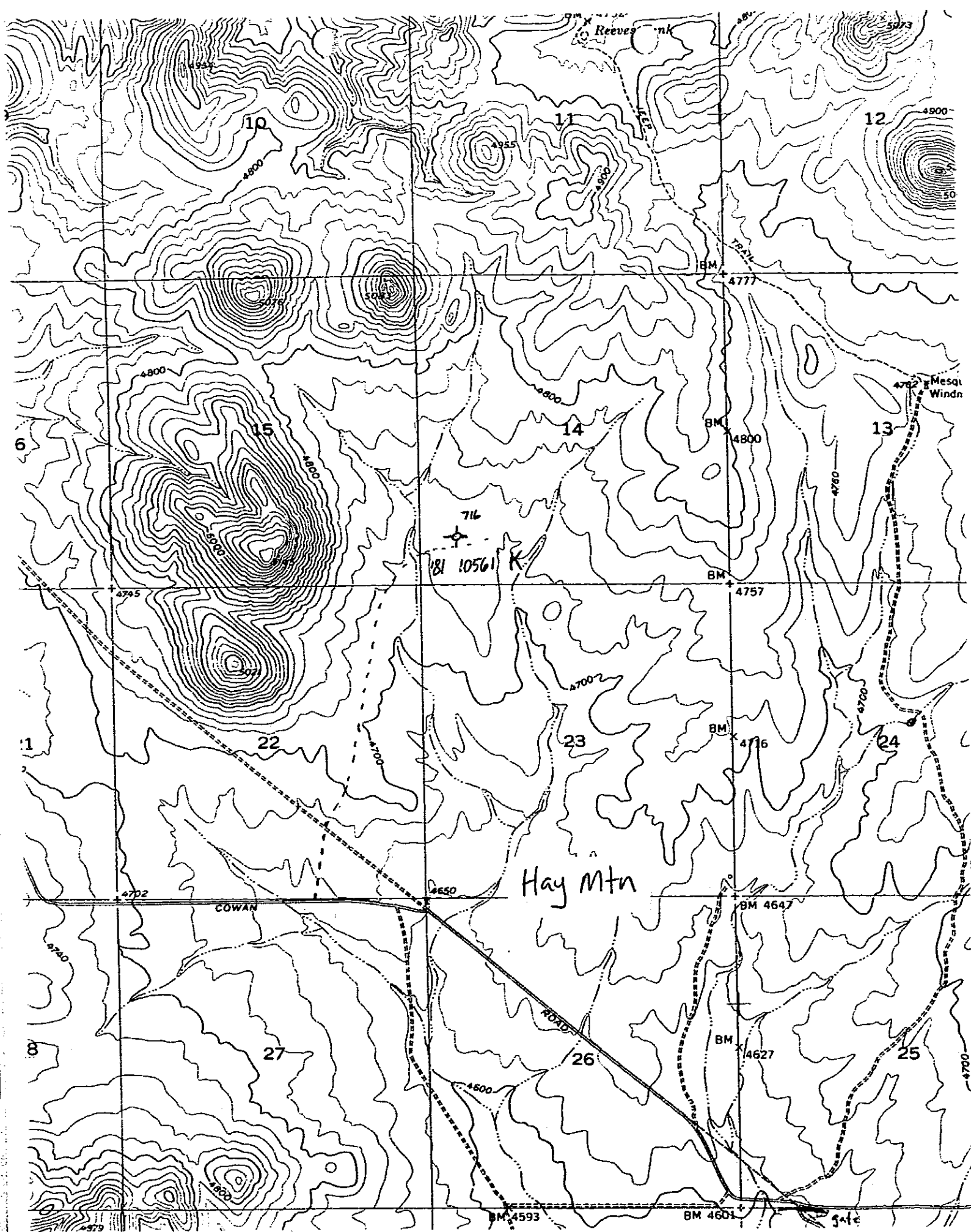
I hereby certify that the well location shown on this
plat was plotted from field notes of actual survey
made by me, and that the same is true and correct to
the best of my knowledge and belief. Surveyed 12-28-80.

Clarence S. Wilcox
Clarence S. Wilcox
Registered Engineer # 1270



CLARENCE S. WILCOX
CIVIL ENGINEER
P.O. BOX 4452
HUACHUCA CITY, AZ 85616

Phillips Petroleum Co.





PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

PHILLIPS PETROLEUM COMPANY

To:

(OPERATOR)

to drill a well to be known as

TOMBSTONE STATE A-1

(WELL NAME)

located

850' FROM SOUTH LINE, 600' FROM WEST LINE

(SW¹/₄SW¹/₄)

Section

14

Township

20 S

Range

23 E

COCHISE

County, Arizona.

The

W/2 OF SW/4

of said

Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this **9th** day of **JANUARY**, 19 **81**.

PRIOR TO BEING ALLOWED TO PRODUCE THIS WELL
YOU MUST BE IN FULL COMPLIANCE WITH RULE
105, SECTION A THRU G (SPACING), WITH RESPECT
TO THE PRODUCT TO BE PRODUCED.

OIL AND GAS CONSERVATION COMMISSION

By *Don Whittaker*
EXECUTIVE SECRETARY

PERMIT

Nº

716

RECEIPT NO. **1982**
API NO. **02-003-20005**

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

TEN FOOT SAMPLES ARE REQUIRED FROM SURFACE

PHILLIPS PETROLEUM COMPANY BARTLESVILLE, OKLAHOMA 74004

DESCRIPTION

DRAFT No. 237863

Drilling Permit Filing Fee - \$25.00

State Lease #51662 N&L SW1/4 of SW1/4
Sec. 14-20S-23E Cochise County, Arizona

CHARGE: Tombstone State-A #1 AFE P-Y011

LEDGER	LOC.	EMPLOYEE NO.	CL.

Re: Oil and Gas Potential - Activity in Cochise County, AZ

Subject: Re: Oil and Gas Potential - Activity in Cochise County, AZ

Date: Mon, 16 Oct 2000 15:40:57 -0700

From: Steve Rauzi <Rauzi.Steve@pop.state.az.us>

To: "Robinson, Charles E.D." <robinsc2@bp.com>

file 716

Larry,

Charles,

I have no record of any wells drilled in 19s-23e but Phillips drilled the 1A Tombstone State in 14-20s-23e to a depth of 10561 ft in 1981. The well was planned to go to 20,000 ft but they got stuck it was abandoned early with a big fish in the hole. I'd have to look at the well file for the exact particulars but as I recall the Phillips well entered Cretaceous went through some granite or quartzite and back into Cretaceous where it was plugged. As a result, the Phillips well did not test the underlying (if present) Paleozoic rocks. In 1963, Mountain States Exploration drilled through ~1000 ft of black Cretaceous shale in its 1A state in 29-19s-18e.

Kenneth Smith, geologist with Continental Oil Co. (at the time), reported scattered oil shows in dense to fairly porous limestone, with poor to fair fluorescence and cut between 2195-2655 ft and 450 ft of oil cut mud in a DST of the interval 2570-90 ft in the nearby Southwest Oil Company 1 Davis-Clark in 5-21s-24e. The Southwest well was drilled in 1958.

I believe there is higher-risk potential (higher risk but bigger potential) in southeast Arizona where Paleozoic rocks of the Pedregosa Basin and Cretaceous rocks of the Bisbee Basin are preserved in down-faulted graben in this area.

I have attached a few references about southeastern Arizona. You may also find OG-6, OG-10, OG-12, and OG-24 of interest. Information about these may be found at <http://www.azgs.state.az.us/azgs-pubs-oil.htm>. I could fax Mr. Smith's letter to you if you are interested.

Steve

Oil & Gas Administrator
416 W. Congress #100
Tucson AZ 85701
520-770-3500 fax 520-770-3505

"Robinson, Charles E.D." wrote:

> Steve -
>
> I was given your name by geologist Bill Auby, at the BLM. Are you aware of
> any oil and gas activity in Cochise County? Bill advised me that the BLM
> had issued some oil and gas leases in 1998 in the area of 19S-23E and
> 20S-23E. Geologically speaking, in your opinion is there any potential in
> this area for oil and gas? Have any papers or articles been published on
> this subject?
>
> Thanks for your input.
>
> Charles Robinson
> BP Amoco
> 281 366-3472

<input type="checkbox"/> Pedregosa.doc	Name: Pedregosa.doc
	Type: Microsoft Word Document (application/msword)
	Encoding: base64

Oil and Gas Potential - Activity in Cochise County, AZ

Subject: Oil and Gas Potential - Activity in Cochise County, AZ
Date: Tue, 10 Oct 2000 11:07:18 -0500
From: "Robinson, Charles E.D." <robinsc2@bp.com>
To: "Rauzi_Steve@pop.state.az.us" <Rauzi_Steve@pop.state.az.us>

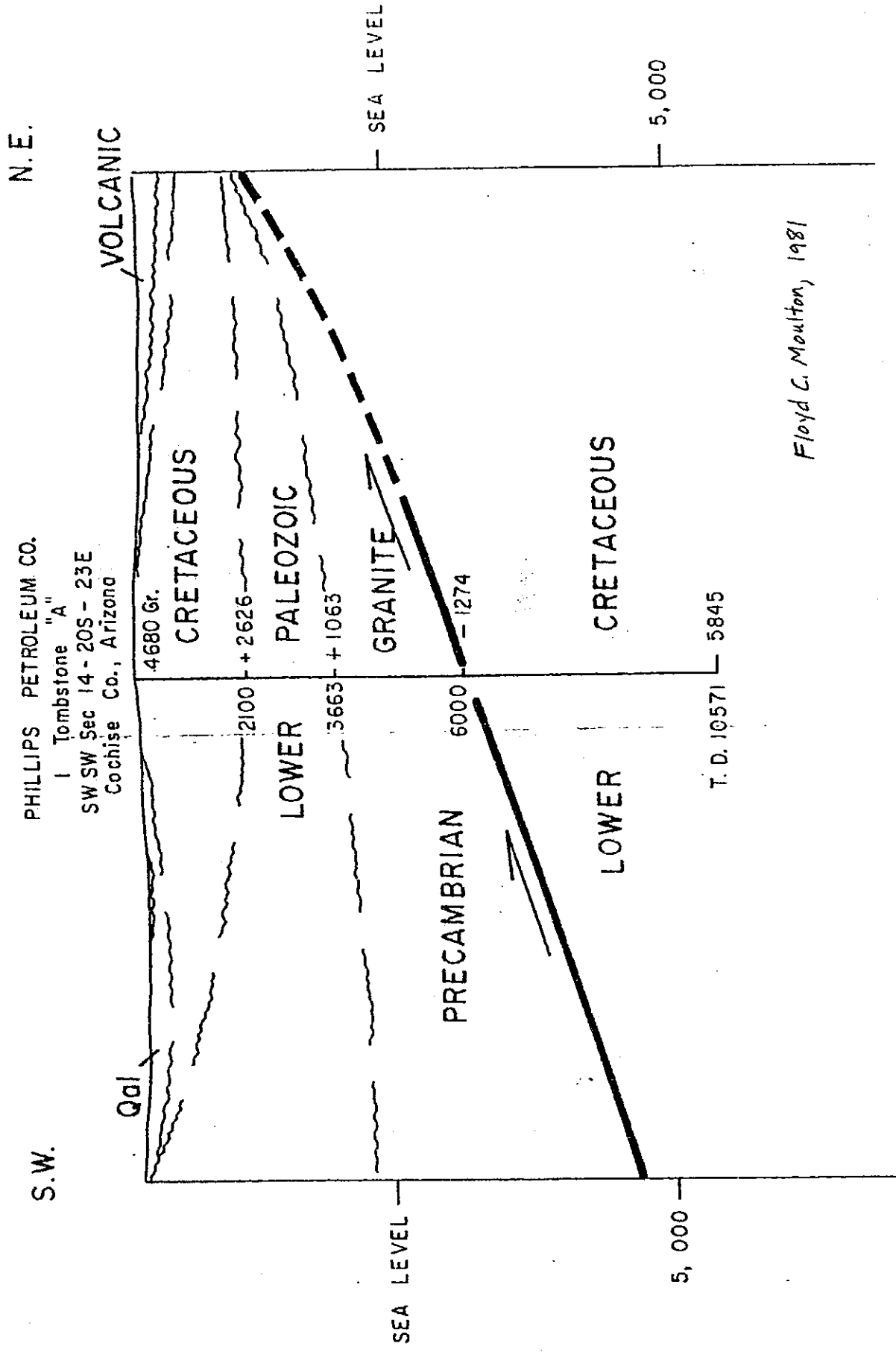
Steve -

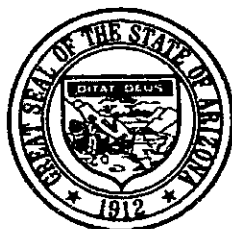
I was given your name by geologist Bill Auby, at the BLM. Are you aware of any oil and gas activity in Cochise County? Bill advised me that the BLM had issued some oil and gas leases in 1998 in the area of 19S-23E and 20S-23E. Geologically speaking, in your opinion is there any potential in this area for oil and gas? Have any papers or articles been published on this subject?

Thanks for your input.

Charles Robinson
BP Amoco
281 366-3472

SOUTHEASTERN ARIZONA THRUST BELT





Fife Symington
Governor

State of Arizona
Arizona Geological Survey

416 W. Congress, Suite 100
Tucson, Arizona 85701
(520) 770-3500



Larry D. Fellows
Director and State Geologist

April 1, 1996

Mr. Alan Byron
Byron Oil Industries
1302 Clarkson Clayton Center
Ballwin, MO 63011

File 716

Dear Mr. Byron:

The information we talked about this morning is enclosed. This information supplements the articles by Keith and Reif & Robinson previously sent and includes

- (1) selected references on the overthrust play in Arizona,
- (2) list of our oil & gas publications,
- (3) completion report and condensed mud log for Phillips Tombstone well,
- (4) Moulton's (?) SW-NE cross-section through the Phillips Tombstone well,
- (5) Kenneth Smith's memo about oil-cut mud in the Southwest Oil well,
- (6) 1976 article on Jurassic salt of hingeline area by Hansen,
- (7) 1980 article on Utah-Arizona overthrust by Hansen, Moulton, and Owings,
- (8) Moulton's resume,
- (9) Cochise County well location map, and
- (10) my March 1995 summary of oil and gas potential in Arizona.

As I noted this morning, Ed Heylmun (local consulting geologist) pointed out a nw-trending lineament on landsat imagery that passes through the Phillips well, the Southwest Oil well, and the Double Adobe area of southern Springs Valley. Ed's phone number is (520) 327-3980 in case your interested in his take on the significance of this lineament and potential for oil and gas in southeastern Arizona.

Let me know if I may be of further assistance.

Sincerely,

Steven L. Rauzi

Steven L. Rauzi
Oil and Gas Program Administrator

Enclosures



Fife Symington
Governor

State of Arizona
Arizona Geological Survey

845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795

Larry D. Fellows
Director and State Geologist

March 23, 1992

file 716

Mr. Dub Ruberts
Shell Western, Room 5222WCK
P. O. Box 4252
Houston, Texas 77077-4252

Dear Mr. Ruberts:

Enclosed is the information you requested this morning, the well history of the Phillips Tombstone State A #1, State permit #716.

Let me know if I can provide you with any additional information.

Sincerely,

Steven L. Rauzi

Steven L. Rauzi
Oil and Gas Program Administrator

Enclosure



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
1645 WEST JEFFERSON, SUITE 420
PHOENIX, ARIZONA 85007
PHONE: (602) 255-5161

RECEIVED
APR 25 1984
O & G CONS. COMM.

April 17, 1984

Mr. Jon Goldstein
Rocky Mountain Well Log Service
P. O. Drawer 3150
Denver, Colorado 80201

Re: Phillips Petroleum Company
Tombstone State A-1
Sec. 14, T.20S., R.23E.
Cochise County, Arizona

ENCLOSED PLEASE FIND COPIES OF THE FOLLOWING:

1 each DIL, BHCS, CNFD, Runs #1 & #2, - 3/14/81 & 8/7/81

1 each Mudlog

PLEASE ACKNOWLEDGE RECEIPT BY SIGNING AND RETURNING THE ENCLOSED COPY TO THE ABOVE ADDRESS.

Thank you.

Sheila Burgan

Sheila Burgan
Enforcement Section

RECEIVED BY: Jon Goldstein / JCG DATE: April 19, 1984

Returned 4-25-84

**PHILLIPS OIL COMPANY**

A SUBSIDIARY OF PHILLIPS PETROLEUM COMPANY

EXPLORATION AND PRODUCTION GROUP

DENVER, COLORADO 80237
8055 EAST TUFTS AVENUE PARKWAY

DATA TRANSMITTAL

13 April 1984

TO:

OIL AND GAS CONSERVATION COMMISSION
STATE OF ARIZONA
1645 West Jefferson, Suite 420
Phoenix, Arizona 85007
Attn: Sheila Burgan

RE:

Phillips Petroleum
Tombstone State A-1
Sec 14-20S 23E
Cochise County, Arizona

ENCLOSED PLEASE FIND COPIES OF THE FOLLOWING:

1. ☐ Approved Well Permit
2. ☐ Core Analysis/Core Description
3. ☐ DST Chart/DST Report # _____
4. ☐ Fluid Analysis (Gas, Water, Oil)
5. ☐ Geological Prognosis and Drilling Program
6. ☐ Geological Well Report
7. ☐ Survey Plat
8. ☐ Well Completion Report
9. ☐ Well History
10. ☐ Well Permit Application
11. ☐ LOGS (Field Prints) _____ RUN # _____ DATE: _____
12. 1ea LOGS (Final Prints) DIL, BHCS, CNFD RUN # 1+2 DATE: 3-14-81/8-7-81
1 Mudlog

PLEASE ACKNOWLEDGE RECEIPT BY SIGNING AND RETURNING THE ENCLOSED COPY TO THE ABOVE ADDRESS. THANK YOU.

R. M. Coffelt
R. M. Coffelt
Director, Development Geology,
Western DivisionRECEIVED BY: Sheila Burgan
EGD.P36-2DATE: 4-16-84

March 12, 1984

Mr. John Goldstein
Rocky Mountain Well Log Service
P. O. Box 3150
Denver, Colorado 80201

Dear John:

I am mailing you copies of the logs we have on Phillips Petroleum's Douglas A-1 State well, Sec. 14, T-23S, R-29E. At the present time, this is the only well on which we have duplicate copies of the logs.

I have written to Phillips requesting duplicates on their Tombstone A-1 State well. As soon as I receive these I will send them to you. The only log we received on the Bedrock Oil #1 State well was a Lithologic log. If you are interested in this, let me know and I will contact Bedrock for a duplicate. As I told you on the telephone last week, very few of the older wells in the state have logs and such is the case with the Ari-Tex #1 Coins well.

If I can be of any further assistance to you, please do not hesitate to call me.

Sincerely,

Sheila Burgan
Secretary
Enforcement Section

March 12, 1984

Ms. Pat Bertuzzi
Phillips Petroleum Company
Greenwood Plaza
7800 East Dorado Place
Englewood, Colorado 80111

Re: Phillips Petroleum Tombstone A-1 State
Sec. 14, T-20S, R-23E, SW SW
Permit Number 716

Dear Pat:

In a review of my files, I find that we do not have a duplicate set of well logs for the above referenced well. We have recently had a request for copies of the logs on this well from Rocky Mountain Well Log Service.

Would you please send a complete set of logs on this well at your earliest convenience.

Thank you for your cooperation.

Sincerely,

Sheila Burgan
Secretary
Enforcement Section

May 18, 1982

Mr. Robert L. Doty
Cities Service Company
Energy Resources Group
P.O. Box 1919
Midland, Texas 79702

Re: Phillips Petroleum
1 State-A
(Anschutz Texoma
1-10-2 State)
Section 2, 7S-10E
Pinal County, AZ
State Permit No. 702

Phillips Petroleum
Tombstone 1 State-A
Section 14, 20S-23E
Cochise County, AZ
State Permit No. 2467

Dear Mr. Doty:

This is to acknowledge receipt of your letter of May 10, 1982 pertaining to the subject Phillips Petroleum wells.

Please be advised that this Commission does not have the capacity for reproductions of well logs and therefore company representatives have always come to the Commission offices to study such files and make their own determination as to what part of the files they would like reproduced. The reproduction can be done by a local company after satisfactory credit has been established.

Sincerely,

A. K. Doss
Executive Director

AKD/vb

CITIES SERVICE COMPANY
ENERGY RESOURCES GROUP



Box 1919
Midland, Texas 79702
(915) 685-5600

May 10, 1982

RECEIVED

MAY 12 1982

O & G CONS. COMM.

State of Arizona
Oil and Gas Conservation Commission
1645 W. Jefferson, Suite 420
Phoenix, Arizona 85007

Dear Sirs:

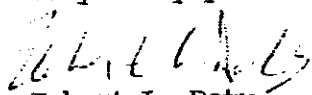
I wish to request any information released on two wells drilled in
Arizona:

Anschutz Corporation
1-10-2 State Anschutz
Section 2, 7S- 10E
Pinal County, AZ

Phillips Petroleum Company
1-A-Tombstone St.
Section 14, 20S-23E
Cochine County, AZ

If there is a charge for this service, please so notify, and a check
will be sent forthwith.

Very truly yours,


Robert L. Doty



OFFICE OF
Oil and Gas Conservation Commission

STATE OF ARIZONA

1645 WEST JEFFERSON, SUITE 420

PHOENIX, ARIZONA 85007

PHONE: (602) 255-5161

April 7, 1982

Memo: Russell Kolsrud, Office of Attorney General

From: A. K. Doss, Executive Director, O&GCC *AKD*

Per our conversation, day-before-yesterday, please find enclosed copies of correspondence pertaining to Phillips Petroleum's request for an extension of confidentiality on the Tombstone well.

Please let us hear from you at your earliest convenience.

March 16, 1982

Mr. R. A. Wolgast
Attorney-in-Fact
Phillips Petroleum Company
Woodside II-Greenwood Plaza
7800 E. Dorado Place
Englewood, Colorado 80111

Re: Phillips Tombstone State A-1
S/4 S/4 Section 14-T20S-R23F
Cochise County, Arizona
State Permit No. 716

Dear Mr. Wolgast:

This is to acknowledge receipt of your letter of March 12, 1982 pertaining to the above reference.

Please be advised that the Commission will ask our Attorney General to advise us as to what action we should take in regard to your request for a three-month extension of confidentiality of the above well. I do not know how long it will take for us to get an Attorney General opinion on this, but in the interim the well information will remain confidential in our files.

I will contact you as soon as we receive a reply from our Attorney General.

Sincerely,

A. K. Doss
Executive Director

AKD/vb



PHILLIPS PETROLEUM COMPANY

ENGLEWOOD, COLORADO 80111
WOODSIDE II — GREENWOOD PLAZA 7800 E. DORADO PLACE

EXPLORATION AND PRODUCTION GROUP
Western Division

RECEIVED

MAR 15 1982

D & G CONS. COMM.

March 12, 1982

RE: Phillips Tombstone State A-1
S/4 S/4 Section 14-T20S-R23E
Cochise County, Arizona

Mr. A. K. Doss
Executive Secretary
Oil & Gas Commission
State of Arizona
1645 West Jefferson, Suite 420
Phoenix, Arizona 85007

Dear Mr. Doss:

According to Phillips' records, the confidentiality period for the Tombstone State A-1 well expires March 16, 1982.

We are still attempting to obtain a re-drill or deepening through a deviated hole by farmout and wish to plug in some of the information being obtained in our current stratigraphic hole program to strengthen our case.

Consequently, Phillips Petroleum Company respectfully requests a three-month extension of the confidentiality period to hopefully obtain further testing of the Tombstone feature.

Yours very truly,

PHILLIPS PETROLEUM COMPANY

By: 

R. A. Wolgast
Attorney-in-Fact

RAW/sa



THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85719

OFFICE OF ARID LANDS STUDIES
845 N. PARK

November 16, 1981

RECEIVED

NOV 27 1981

O & G CONS. COMM.

TEL. (602) 626-1955

Cable Address: ARIDLANDS
TUCSON, ARIZONA

AKO
RAY ✓
ArB *ArB*
OS

Memorandum To: A. K. Doss, Oil and Gas Commission
Bob Larkin, State Land Department
Dick Countryman, Commission on Agriculture
and Horticulture

From: Kenneth Foster

Regarding: Tombstone State A Well

Enclosed for your information is a copy of the
report "Environmental Inventory, Monitoring and Reclamation
Assistance for Tombstone State A, Phillips Petroleum Corporation.

This report represents the environmental
inventory and site monitoring at the Tombstone site. The design
and implementation of a reclamation plan is now under consideration.

KF/mlt

CC: Dale Fisher



PHILLIPS PETROLEUM COMPANY

ENGLEWOOD, COLORADO 80111
7800 E. DORADO PLACE

11-5-81

To file:

A. K. Doss
Oil & Gas Conservation Commission
1645 West Jefferson # 420
Phoenix, Arizona 85007

Arizona Bureau of Geology
University of Arizona
845 North Park Avenue
Tucson, Arizona 85719

RE: Tombstone State #A-1
14-20S-23E
Cochise County, Arizona

Gentlemen:

Enclosed please find:

*Qual Induction-SFL
Dipmeter
BTE Sonar
comp section from Sonar*

If satisfactory, please sign and return one copy of this transmittal letter to me at the above address.

Sincerely,

TE

Tom Earley
Staff Geologist

RECEIVED

Aden

DATE

11/23/81

*We still have not received a copy of
your litho-sample log. Please forward a copy
as soon as possible so that we may
complete our files. Aft*

716



Arizona
State Land Department

1624 WEST ADAMS
PHOENIX, ARIZONA 85007



Joe T. Fallini
Commissioner

*File
Phillips
well file*

RECEIVED

OCT 26 1981

O & G CONS. COMM.

October 26, 1981

Mr. Robert E. Cowen
Box 908
Tombstone, Arizona 85638

Dear Mr. Cowen:

After careful consideration of State Land Department Oil and Gas Lease conditions, Oil and Gas Commission Rules and Regulations, and the applicable laws of the State of Arizona with regard to water production wells, it is our position that the water well placed on State Trust Land by Phillips Petroleum Corporation at D(20, 23) 14 dcc is an improvement placed by the oil and gas exploration lessee. Under terms of the Oil and Gas Lease (Section 9) the State Land Department, as owner of the land, is the sole owner of the well (bore and casing), as well as the groundwater beneath said land. This would negate any necessity of the overlying grazing lessee to file an Application to Place Improvements on Trust lands (either with or without prior permission); also any contract assigning the water well to the grazing lessee (other than for the pump, valves and appurtenant piping) is without validity. The well is considered as a non-reimbursable improvement, from which the SLD would allow extractions to be made in conjunction with the grazing operation.

We hope this serves to clarify the situation concerning the well associated with Oil and Gas Lease No. 51662. If you have any questions concerning the above, please give me a call at 255-4626.

Sincerely,

Kelly R. Johnson
Kelly R. Johnson, Director
Natural Resources Conservation Division

KRJ/DWY/cn

cc: A.K. Doss, Oil & Gas Commission
Dale Fisher, Phillips Exploration
Dale Tersey, Tucson State Land Dept.
Russ Kolsrud, Attorney General



PHILLIPS PETROLEUM COMPANY

ENGLEWOOD, COLORADO 80111
7800 E. DORADO PLACE

RECEIVED

OCT 9 1981

O & G CONS. COMM.

October 7, 1981

A. K. Doss
Oil & Gas Conservation Commission
1645 West Jefferson # 420
Phoenix, Arizona 85007

Arizona Bureau of Geology
University of Arizona
845 North Park Avenue
Tucson, Arizona 85719

RE: Tombstone State #A-1
14-20S-23E
Cochise County, Arizona

Gentlemen:

Enclosed please find:

Final Well Report

If satisfactory, please sign and return one copy of this transmittal letter to me at the above address.

Sincerely,

Tom Earley

Tom Earley
Staff Geologist

RECEIVED

AKD

DATE

10-9-81

*The Commission has not yet received copies
of the electrical logs.*



PHILLIPS PETROLEUM COMPANY

ENGLEWOOD, COLORADO 80111
7800 E. DORADO PLACE

RECEIVED

OCT 2 1981

O & G CONS. COMM.

September 29, 1981

Don Whittaker
Oil & Gas Conservation Commission
1645 West Jefferson # 420
Phoenix, Arizona 85007

Arizona Bureau of Geology
University of Arizona
845 North Park Avenue
Tucson, Arizona 85719

RE: Tombstone State #A-1
14-20S-23E
Cochise County, Arizona

Gentlemen:

Enclosed please find:

Final Mud log 70'-10,560'

If satisfactory, please sign and return one copy of this transmittal letter to me at the above address.

Sincerely,

Tom Early
Staff Geologist

RECEIVED

DATE

10/2/81

716

Sample No. 1821
P/N 716

Date
Rec'd

Box No.	Range	
1	70-2110	3-24-81
2	2110-3300	5-1-81
3	3300-4540	-11-
4	4540-5540	-26-
5	5540-6780	6-5-
6	6780-8100	6-30
7	8100-9300	7-23
8	9300-10,560	8-12

Boxes 9 & 10
Corrections 2 boxes 7-30-81

Corr. 2:5473-99
3:6061-90
4:6503-16
5:8180-86
6:8839-40
7:8840-44

PHILLIPS PETROLEUM COMPANY

NORTHWESTERN REGION
7800 E. Dorado Place
Englewood, CO. 80111

RECEIVED

AUG 10 1981

O & G CONS. COMM.

DATE: 8/8/81

TO: ARIZONA OIL AND GAS CONSERVATION Commission

1645 W. JEFFERSON, SUITE 420

PHOENIX, ARIZONA 85007

[REDACTED]

ATTN: MR. A.K. DOSS

FROM: Phillips Petroleum Company

Enclosed are the following packaged well cuttings from the Phillips Petroleum

Phillips Tomblene 1 State-A well,

BOX NUMBER	INTERVAL	REMARKS
7008	9300'-10,560'	WASHED AND DRIED SAMPLES
		TO INTERMEDIATE CASING
		POINT

Please acknowledge receipt of this shipment by signing and returning one copy of this data transmittal letter to:

Phillips Petroleum Company
7800 E. Dorado Place
Englewood, Colorado 80111
Attn: Mr. D. W. Buelow

RECEIVED BY: [Signature]

DATE: 8-12-81

COMPANY: Arg. Oil & Gas Conservation Comm.

716

August 3, 1981

Mr. R. A. Wolgast
Land Manager
Rocky Mountain Region
Phillips Petroleum Company
Woodside II - Greenwood Plaza
7800 E. Dorado Place
Englewood, Colorado 80111

Dear Dick:

This is to acknowledge receipt of your letter of July 17th
pertaining to letter of introduction.

I appreciate your securing this letter of introduction and
I am sure we will experience no further difficulties at the
rig.

Regards,

A. K. Doss
Executive Director

AKD/vb



PHILLIPS PETROLEUM COMPANY

ENGLEWOOD, COLORADO 80111
WOODSIDE II — GREENWOOD PLAZA 7800 E. DORADO PLACE

EXPLORATION AND PRODUCTION GROUP
Northwest Division

RECEIVED *AKS*

JUL 22 1981

O & G CONS. COMM.

716

July 17, 1981

RE: Letter of Introduction
Tombstone State A #1
Tombstone, Arizona

Mr. A. K. Doss
Executive Secretary
Arizona Oil & Gas
Conservation Commission
1645 West Jefferson
Suite 420
Phoenix, Arizona 85007

Dear A.K.:

Attached is the letter I visited about with you. It should solve any future problems, but if you have any trouble with same just have them call in.

Also, please be reminded to hold any information you are given extremely confidential.

Regards,

R. A. Wolgast
R. A. Wolgast
Land Manager
Rocky Mountain Region

RAW/sa

Att.



July 17, 1981

RECEIVED

JUL 22 1981

O & G CONS. COMM.

716

INTER-OFFICE CORRESPONDENCE / SUBJECT:
Denver

Phillips Tombstone State A #1
Sec. 14-T20S-R23E
Arizona

TO: Wellsite Personnel

This will introduce Mr. A. K. Doss, Executive Secretary of the Arizona Oil and Gas Conservation Commission, and serve as your authorization to furnish him any information about the above-referenced well which he requests. Please cooperate fully with Mr. Doss.

C. W. Betton

C. W. Betton
Exploration Manager
Rocky Mountain Region

CWB/sa



PHILLIPS PETROLEUM COMPANY

ENGLEWOOD, COLORADO 80111
WOODSIDE II — GREENWOOD PLAZA 7800 E. DORADO PLACE

EXPLORATION AND PRODUCTION GROUP
Northwest Division

July 28, 1981

RECEIVED

JUL 30 1981

O & G CONS. COMM.

A.K. Doss
Arizona Oil and Gas Conservation
Commission
1645 West Jefferson
Suite 420
Phoenix, Arizona 85007

Dear Mr. Doss:

With this letter we are sending core chips taken at one foot intervals from all the cores which have been cut to date at the Tombstone State A-1 well in Cochise County. The coring history of the well is as follows:

Core 1 - No recovery
Core 2 - 5473' - 5479'
Core 3 - 6061' - 6090'
Core 4 - 6503' - 6516'
Core 5 - 8180' - 8186'
Core 6 - 8839' - 8840'
Core 7 - 8840' - 8844'

Any questions concerning these cores should be directed to me at (303) 779-8989, ext. 258.

Sincerely,

Jamie Robinson
Jamie Robinson

cc: C.W. Betton
(r) file

JR:bm

Tombstone 1-A State

716

PHILLIPS PETROLEUM COMPANY

NORTHWESTERN REGION
7800 E. Dorado Place
Englewood, CO. 80111

DATE: 21 July 1981

TO: Arizona Oil & Gas Conservation Commission

1645 W. Jefferson

Suite 420

Phoenix, Ariz. 85007

Attn: W.E. Allen

FROM: Phillips Petroleum Company

Enclosed are the following packaged well cuttings from the Phillips Petroleum

PHILLIPS TOMBSTONE
STATE-A No. 1 well,
COCHISE CO., ARIZONA

BOX NUMBER	INTERVAL	REMARKS
7007	8100' - 9300'	washed & dried samples

Please acknowledge receipt of this shipment by signing and returning one copy of this data transmittal letter to:

Phillips Petroleum Company
7800 E. Dorado Place
Englewood, Colorado 80111
Attn: Mr. D. W. Buelow

RECEIVED BY: [Signature]

DATE: 7-23-81

COMPANY: Oil & Gas Conservation Commission

STATE OF ARIZONA
1645 W. JEFFERSON, SUITE 420
TELEPHONE: 255-5151
PHOENIX, ARIZONA 85007

PHILLIPS PETROLEUM COMPANY

NORTHWESTERN REGION
7800 E. Dorado Place
Englewood, CO. 80111

DATE: 24 June 1981

TO: Ariz. Oil & Gas Conservation Commission
1645 W. Jefferson
Suite 420
Phoenix, Ariz. 85007
ATTN: Mr. Don Whitaker
FROM: Phillips Petroleum Company

Enclosed are the following packaged well cuttings from the Phillips Petroleum

PHILLIPS TOMBSTONE
STATE-A No. 1 well,
COCHISE CO., ARIZONA

BOX NUMBER	INTERVAL	REMARKS
7006	6780' - 8100'	washed & dried samples

Please acknowledge receipt of this shipment by signing and returning one copy of this data transmittal letter to:

Phillips Petroleum Company
7800 E. Dorado Place
Englewood, Colorado 80111
Attn: Mr. D. W. Buelow

RECEIVED BY: P. K. Dan

DATE: 6-30-81

COMPANY: OIL & GAS CONSERVATION COMMISSION

1645 W. JEFFERSON SUITE 420
PHOENIX, ARIZONA 85007

PHILLIPS PETROLEUM COMPANY

NORTHWESTERN REGION
7800 E. Dorado Place
Englewood, CO. 80111

DATE: 6-2-81

TO: ARIZONA OIL AND GAS CONSERVATION COMMISSION
1645 WEST JEFFERSON
SUITE 420
PHOENIX, ARIZONA 85007
ATTN: MR DON WHITTAKER
FROM: Phillips Petroleum Company

Enclosed are the following packaged well cuttings from the Phillips Petroleum

PHILLIPS TOMBSTONE well,
STATE-A-No. 1
COCHISE CO., ARIZONA

BOX NUMBER	INTERVAL	REMARKS
7005	5540-6780	WASHED AND DRIED SAMPLES

Please acknowledge receipt of this shipment by signing and returning one copy of this data transmittal letter to:

Phillips Petroleum Company
7800 E. Dorado Place
Englewood, Colorado 80111
Attn: Mr. D. W. Buelow

RECEIVED BY: W. E. Allen DATE: 6-5-81
COMPANY: Oil & Gas Conservation Commission

PHILLIPS PETROLEUM COMPANY

NORTHWESTERN REGION
7800 E. Dorado Place
Englewood, CO. 80111

DATE: 5/5/81

TO: ARIZONA OIL & GAS CON. COMM

1645 W. JEFFERSON

SUITE 420

PHOENIX, AZ. 85007

ATTN: DON WHITTAKER
FROM: Phillips Petroleum Company

Enclosed are the following packaged well cuttings from the Phillips Petroleum

PHILLIPS TOMBSTONE well,		
STATE-A-No. 1		
COCHISE CO., ARIZONA		
BOX NUMBER	INTERVAL	REMARKS
1003	3300- ⁴⁵⁴⁰ 45400	WASHED & DRIED
		SPLS

Please acknowledge receipt of this shipment by signing and returning one copy of this data transmittal letter to:

Phillips Petroleum Company
7800 E. Dorado Place
Englewood, Colorado 80111
Attn: Mr. D. W. Buelow

RECEIVED BY: [Signature] DATE: 5-11-81

COMPANY: OIL & GAS CONSERVATION COMMISSION
STATE OF ARIZONA
1645 W. JEFFERSON, SUITE 420
TELEPHONE: 253-5161
PHOENIX, ARIZONA 85007

PHILLIPS PETROLEUM COMPANY

NORTHWESTERN REGION
7800 E. Dorado Place
Englewood, CO. 80111

DATE: 27 April 1981

TO: Arizona Oil & Gas Conservation Commission
1645 West Jefferson, Suite 420
Phoenix, Arizona 85007
Attn: Mr. Don Whitaker

FROM: Phillips Petroleum Company

Enclosed are the following packaged well cuttings from the Phillips Petroleum

<u>PHILLIPS TOMSTONE</u> <u>STATE-A-No. 1</u> <u>COCHISE CO., ARIZONA</u>		well,
BOX NUMBER	INTERVAL	REMARKS
<u>7002</u>	<u>2110 - 3100 3300</u>	<u>washed & dried samples</u>

Please acknowledge receipt of this shipment by signing and returning one copy of this data transmittal letter to:

Phillips Petroleum Company
7800 E. Dorado Place
Englewood, Colorado 80111
Attn: Mr. D. W. Buelow

RECEIVED BY: W. B. Buelow DATE: 5-1-81

COMPANY: OIL & GAS CONSERVATION COMMISSION
STATE OF ARIZONA
1645 W. JEFFERSON, SUITE 420
TELEPHONE: 254-5161
PHOENIX, ARIZONA 85007

PHILLIPS PETROLEUM COMPANY

NORTHWESTERN REGION
7800 E. Dorado Place
Englewood, CO. 80111

DATE: 20 March 1981

TO: Arizona Oil & Gas Conservation Comm.

1645 W. Jefferson, Suite 420

Phoenix, Ariz. 85007

Attn: Don Whitaker

FROM: Phillips Petroleum Company

Enclosed are the following packaged well cuttings from the Phillips Petroleum

PHILIPS TOMBSTONE

STATE-A-No. 1

COCHISE CO., ARIZONA

well,

BOX NUMBER	INTERVAL	REMARKS
7001	70'-2110'	samples up to surface casing point

Please acknowledge receipt of this shipment by signing and returning one copy of this data transmittal letter to:

Phillips Petroleum Company
7800 E. Dorado Place
Englewood, Colorado 80111
Attn: Mr. D. W. Buelow

RECEIVED BY: W. C. Buelow

DATE: 3-24-81

COMPANY: OIL & GAS CONSERVATION COMMISSION

STATE OF ARIZONA

1645 W. JEFFERSON, SUITE 420

TELEPHONE: 255-5161

PHOENIX, ARIZONA 85007

W/R



PHILLIPS PETROLEUM COMPANY
Box 2920
Casper, Wyoming 82601

RECEIVED

APR 9 1981

O & G CONS. COMM.

April 8, 1981

Mr. W. E. Allen
Executive Secretary
Oil and Gas Conservation Commission
State of Arizona
1645 West Jefferson, Suite 420
Phoenix, Arizona 85007

Dear Mr. Allen,

In response to your letter of April 6, 1981, we are enclosing a copy of our daily report on the drilling activities of the Phillips Petroleum Tombstone State A No. 1 well.

We are extremely sorry for any inconvenience that our oversight in not sending the daily report might have caused you.

Sincerely yours,

Meredith Smart

Meredith K. Smart
Production Clerk, PPCo.

April 6, 1981

Mr. Dale J. Fisher
District Superintendent
Phillips Petroleum Company
P.O. Box 2920
Casper, Wyoming 82602

Re: Weekly Report
Phillips Petroleum Tombstone State A No. 1
Section 14, Township 20 South, Range 23 East
Cochise County, Arizona
State Permit No. 716

Dear Dale:

For some reason we haven't been receiving the weekly report of operations on the subject well.

Will you please bring us up to date on the drilling activities and furnish us with the weekly report in the future.

Very truly yours,

W. E. Allen
Executive Secretary

WEA/vb